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Gencore version 5.1.6

OM nucleic - nucleic search, using sw model
Run on: August 26, 2005, 12:31:55 : Search time 2.81314 Seconds
Perfect score: US-09-598-982C-8
Sequence: 1 gggccctcgagaaaaat.....cgtgaagcggccgctcgt 771
4.206 Million cell updates/sec

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5
Searched: 10 seqs, 7674 residues
Total number of hits satisfying chosen parameters: 20
Minimum DB seq length: 0
Maximum DB seq length: inf
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

Database : US09598982C_rev.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	771	100.0	771	1 US-09-598-982C-8
2	767.8	99.6	771	1 US-09-598-982C-22
3	766.2	99.4	771	1 US-09-598-982C-38
4	764.6	99.2	771	1 US-09-598-982C-20
5	763	99.0	771	1 US-09-598-982C-36
6	761.4	98.8	771	1 US-09-598-982C-24
7	761.4	98.8	771	1 US-09-598-982C-40
8	759.8	98.5	771	1 US-09-598-982C-26
9	735	95.3	771	1 US-09-598-982C-10
10	73.5	3.7	771	1 US-09-598-982C-8
11	28.2	3.7	771	1 US-09-598-982C-20
12	28.2	3.7	771	1 US-09-598-982C-22
13	28.2	3.7	771	1 US-09-598-982C-24
14	28.2	3.7	771	1 US-09-598-982C-26
15	28.2	3.7	771	1 US-09-598-982C-36
16	28.2	3.7	771	1 US-09-598-982C-38
17	28.2	3.7	771	1 US-09-598-982C-40
18	28.2	3.7	771	1 US-09-598-982C-42
19	28.2	3.7	771	1 US-09-598-982C-44
20	27.2	3.5	771	1 US-09-598-982C-10

ALIGNMENTS

RESULT 1
US-09-598-982C-8
; Sequence 8, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Freindscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,


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Db 481 AACCATTTGTGACCCAAATACCACTTGGCSCCTACAGGGAGAACGAGCGTCATC 540
Qy 541 GTCCGTGACGAAATGCTGTGCCGGAAACCCGGAGACTCATGCAGGGGACTCC 600
Db 541 GTCCGTGACGAAATGCTGTGCCGGAAACCCGGAGACTCATGCAGGGGACTCC 600
Db 601 GGAGGGCCCTGGTGTGCAAGGTGAATGGCACCTGGCTGAGGGGGCTGGCTGG 650
Qy 601 GGAGGGCCCTGGTGTGCAAGGTGAATGGCACCTGGCTGAGGGGGCTGGCTGG 650
Db 601 GGAGGGCCCTGGTGTGCAAGGTGAATGGCACCTGGCTGAGGGGGCTGGCTGG 650
Qy 661 GCGGAGGGCTGGCCAGGCCAACGGGCTGGCATCTACCCGGTCACTACTTG 720
Db 661 GCGGAGGGCTGGCCAGGCCAACGGGCTGGCATCTACCCGGTCACTACTTG 720
Qy 721 GACTGATCCACACTATGCCCCAAAGGGTGAAGCGCCGCGCTGT 771
Db 721 GACTGATCCACACTATGCCCCAAAGGGTGAAGCGCCGCGCTGT 771

RESULT4 US-09-598-982C-20
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20

Query Match 99.2%; Score 764; DB 1; Length 771;
Best Local Similarity 99.5%; Pred. No. 0.039;
Matches 767; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 1 GGGCCCTCTGAGAAAGAATGTCGCGGGTCAAGGGGCCAGGAGCTGGCTGG 60
Db 1 GGGCCCTCTGAGAAAGAATGTCGCGGGTCAAGGGGCCAGGAGCTGGCTGG 60
Qy 61 CAGGTAGCCAGTCCAGGCCATACTGGTCACTCTGGGGCTCTCTCATC 120
Db 61 CAGGTAGCCAGTCCAGGCCATACTGGTCACTCTGGGGCTCTCTCATC 120
Qy 121 CACCCCAAGGGTCACTGGTGTGACCCAGGACTCTACGAGGAGCTGGCTGG 180
Db 121 CACCCCAAGGGTCACTGGTGTGACCCAGGACTCTACGAGGAGCTGGCTGG 180
Qy 181 GCCCTAGGGTCACTGGTGTGACCCAGGACTCTACGAGGAGCTGGCTGG 180
Db 181 GCCCTAGGGTCACTGGTGTGACCCAGGACTCTACGAGGAGCTGGCTGG 180
Qy 241 AGCAAGATCATGTCACCCAGGACTCTACGAGGAGCTGGCTGGCTGG 300
Db 241 AGCAAGATCATGTCACCCAGGACTCTACGAGGAGCTGGCTGGCTGG 300
Qy 301 CTGGACTGGAGGAGCGGGTAAGGTCTCGGCCAGTCACTGGCTGGCTGG 360
Db 301 CTGGACTGGAGGAGCGGGTAAGGTCTCGGCCAGTCACTGGCTGGCTGG 360
Qy 361 GCCTCAGAGACCTCCCCGGGATGCCGTGCTGGTCACTGGCTGGGGGATGGAC 420

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Db 361 GCCTCAGAGACCTCCCCGGGATGCCGTGCTGGTCACTGGCTGGGGATGGAC 420
Qy 421 AATGATGAGGCTCCACGCCATTTCCTCTGAAGCAGGTGAGGGCCATAATGAA 480
Db 421 AATGATGAGGCTCCACGCCATTTCCTCTGAAGCAGGTGAGGGCCATAATGAA 480
Qy 481 AACCATTTGTGACGAAATGCTGTGCCGGCTGGCTGAGGGGGCTGGCTGG 540
Db 481 AACCATTTGTGACGAAATGCTGTGCCGGCTGGCTGAGGGGGCTGGCTGG 540
Qy 541 GTCGTTGAGACATGCAAACTGGCTGAGGGGGCTGGCTGAGGGGGCTGGCTGG 600
Db 541 GTCGTTGAGACATGCAAACTGGCTGAGGGGGCTGGCTGAGGGGGCTGGCTGG 600
Qy 601 GGAGGGCCCTGGTGTGCAAGGTGAATGGCACCTGGCTGAGGGGGCTGGCTGG 650
Db 601 GGAGGGCCCTGGTGTGCAAGGTGAATGGCACCTGGCTGAGGGGGCTGGCTGG 650
Qy 661 GCGGAGGGCTGGCCAGGCCAACGGGCTGGCATCTACCCGGTCACTACTTG 720
Db 661 GCGGAGGGCTGGCCAGGCCAACGGGCTGGCATCTACCCGGTCACTACTTG 720
Qy 721 GACTGATCCACACTATGCCCCAAAGGGTGAAGCGCCGCGCTGT 771
Db 721 GACTGATCCACACTATGCCCCAAAGGGTGAAGCGCCGCGCTGT 771

RESULT5 US-09-598-982C-36
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-36

Query Match 99.0%; Score 763; DB 1; Length 771;
Best Local Similarity 99.4%; Pred. No. 0.039;
Matches 766; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
Qy 1 GGGCCCTCTGAGAAAGAATGTCGCGGGTCAAGGGGCCAGGAGCTGGCTGG 60
Db 1 GGGCCCTCTGAGAAAGAATGTCGCGGGTCAAGGGGCCAGGAGCTGGCTGG 60
Qy 121 CACCCCAAGGGTCACTGGTGTGACCCAGGACTCTACGAGGAGCTGGCTGG 180
Db 121 CACCCCAAGGGTCACTGGTGTGACCCAGGACTCTACGAGGAGCTGGCTGG 180
Qy 181 GCCCTAGGGTCACTGGTGTGACCCAGGACTCTACGAGGAGCTGGCTGG 180
Db 181 GCCCTAGGGTCACTGGTGTGACCCAGGACTCTACGAGGAGCTGGCTGG 180
Qy 241 AGCAAGATCATGTCACCCAGGACTCTACGAGGAGCTGGCTGGCTGG 300
Db 241 AGCAAGATCATGTCACCCAGGACTCTACGAGGAGCTGGCTGGCTGG 300
Qy 301 CTGGACTGGAGGAGCGGGTAAGGTCTCGGCCAGTCACTGGCTGGCTGG 360
Db 301 CTGGACTGGAGGAGCGGGTAAGGTCTCGGCCAGTCACTGGCTGGCTGG 360
Qy 361 GCCTCAGAGACCTCCCCGGGATGCCGTGCTGGTCACTGGCTGGGGGATGGAC 420

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RESULT 6 US-09-598-982C-24

Sequence 24, Application US/09598982C

GENERAL INFORMATION:

APPLICANT: Niles, Andrew

APPLICANT: Haak-Frendsch, Mary

APPLICANT: Maffitt, Mark

APPLICANT: Haak-Frendsch, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, TITLE OF INVNATION: AND METHODS OF MAKING SAME

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21, 982C

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO: 24

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (7) .. (753)

US-09-598-982C-24

Query Match 98.8%; Score 761.4; DB 1; Length 771;

Best Local Similarity 99.2%; Pred. No. 0.04; Matches 765; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 241 AGCAGGATCATCGTGCACCAAGCTTACACGCCAGATGGGAGGGACATCCCTG 300

Db 241 ACCAGGATCATCGTGCACCAAGCTTACACGCCAGATGGGAGGGACATCCCTG 300

Qy 301 CTGGAGGTGGAGGGCGGTGAGGTCTCACGCCAGTCACGCCAGATGGGACATCCCTG 360

Db 301 CTGGAGGTGGAGGGCGGTGAGGTCTCACGCCAGTCACGCCAGATGGGACATCCCTG 360

Qy 361 GCTCTAGAGACCTTCCCCCGGGAGTCCGCTGTGGTACTGGCTGGGGAGATGGGAC 420

Db 361 GCTCTAGAGACCTTCCCCCGGGAGTCCGCTGTGGTACTGGCTGGGGAGATGGGAC 420

Qy 421 ATGATGATGCGCTCCACCGCAATTCTCTGAGGGTGAACAGGAGAAGTCCCTAATGGAA 480

Db 421 ATGATGATGCGCTCCACCGCAATTCTCTGAGGGTGAACAGGAGAAGTCCCTAATGGAA 480

Qy 481 ACCACATTTGCGCAAATAACACCTTGCGCTTACACGGGACAGAGCTGGCATCC 540

Db 481 ACCACATTTGCGCAAATAACACCTTGCGCTTACACGGGACAGAGCTGGCATCC 540

Qy 541 GTCCTGAGGACATGCTGTCGGGAGACGGGAGCTACAGGGAGACGAGCTGGCATCC 600

Db 541 GTCCTGAGGACATGCTGTCGGGAGACGGGAGCTACAGGGAGACGAGCTGGCATCC 600

Qy 601 GAGGGGCCCTGTCAGGTAATGGCACTGGGAGACGGGAGCTACAGGGAGACGAGCTGG 660

Db 601 GAGGGGCCCTGTCAGGTAATGGCACTGGGAGACGGGAGCTACAGGGAGACGAGCTGG 660

Qy 661 GGCGAGGCTGGCCCAAGCCACCGCTGCGATCPACACCGCTGTCACCTACTTG 720

Db 661 GGCGAGGCTGGCCCAAGCCACCGCTGCGATCPACACCGCTGTCACCTACTTG 720

Qy 721 GACTGGATCCACCACTATGTCCTAACCGGCTGTCACCCGTTGACTACTTG 771

Db 721 GACTGGATCCACCACTATGTCCTAACCGGCTGTCACCCGTTGACTACTTG 771

RESULT 7 US-09-598-982C-25

Sequence 25, Application US/09598982C

GENERAL INFORMATION:

APPLICANT: Niles, Andrew

APPLICANT: Maffitt, Mark

APPLICANT: Haak-Frendsch, Mary

APPLICANT: Haak-Frendsch, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, TITLE OF INVNATION: AND METHODS OF MAKING SAME

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO: 25

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (7) .. (753)

US-09-598-982C-25

Query Match 98.8%; Score 761.4; DB 1; Length 771;

Best Local Similarity 99.2%; Pred. No. 0.04; Matches 765; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGCCCTGAGAGAAAGATCTCGGGGTGGAGGCCCCAGGAGCTGGCCTGG 60

Db 1 GGGCCCTGAGAGAAAGATCTCGGGGTGGAGGCCCCAGGAGCTGGCCTGG 60

Qy 61 CGGTGAGGCTTAGAGTCCACGCCCTACTGGTACTCTGCGGGCTCCATC 120

Db 61 CGGTGAGGCTTAGAGTCCACGCCCTACTGGTACTCTGCGGGCTCCATC 120

Qy 121 CACCCCAAGGGCTGACGGAGCGGCCTGCTGGGAGGGAGCTGGAGATCTGGC 180

Db 121 CACCCCAAGGGCTGACGGAGCGGCCTGCTGGGAGGGAGCTGGAGATCTGGC 180

Qy 181 GCCTCAGGGCTGCAACTGGGGAGCTGCTGGGGAGCAGCTGCTGGGGCT 240

Db 181 GCCTCAGGGCTGCAACTGGGGAGCAGCTGCTGGGGCT 240

Qy 241 AGCAGGATCATCGTGCACCAAGCTTACACGCCAGTCACGCCAGATGGAC 300

Db 241 AGCAGGATCATCGTGCACCAAGCTTACACGCCAGTCACGCCAGATGGAC 300

Qy 301 CTGGAGCTGGAGGAGCTGGCTTCAGGGTCAACGGGAGCTGGGGCT 360

Db 301 CTGGAGCTGGAGGAGCTGGCTTCAGGGTCAACGGGAGCTGGGGCT 360

Qy 361 GCTCTAGAGACCTTCCCCCGGGAGTCCGCTGTGGTACTGGCTGGGGAGATGGGAC 420

Db 361 GCTCTAGAGACCTTCCCCCGGGAGTCCGCTGTGGTACTGGCTGGGGAGATGGGAC 420

Qy 421 ATGATGATGCGCTCCACCGCAATTCTCTGAGGGTGAACAGGAGAAGTCCCTAATGGAA 480

Db 421 ATGATGATGCGCTCCACCGCAATTCTCTGAGGGTGAACAGGAGAAGTCCCTAATGGAA 480

Qy 481 ACCACATTTGCGCAAATAACACCTTGCGCTTACACGGGACAGAGCTGGCATCC 540

Db 481 ACCACATTTGCGCAAATAACACCTTGCGCTTACACGGGACAGAGCTGGCATCC 540

Qy 541 GTCCTGAGGACATGCTGTCGGGAGACGGGAGCTACAGGGAGACGAGCTGGCATCC 600

Db 541 GTCCTGAGGACATGCTGTCGGGAGACGGGAGCTACAGGGAGACGAGCTGGCATCC 600

Qy 601 GAGGGGCCCTGTCAGGTAATGGCACTGGGAGACGGGAGCTACAGGGAGACGAGCTGG 660

Db 601 GAGGGGCCCTGTCAGGTAATGGCACTGGGAGACGGGAGCTACAGGGAGACGAGCTGG 660

Qy 661 GGCGAGGCTGGCCCAAGCCACCGCTGCGATCPACACCGCTGTCACCTACTTG 720

Db 661 GGCGAGGCTGGCCCAAGCCACCGCTGCGATCPACACCGCTGTCACCTACTTG 720

Qy 721 GACTGGATCCACCACTATGTCCTAACCGGCTGTCACCCGTTGACTACTTG 771

Db 721 GACTGGATCCACCACTATGTCCTAACCGGCTGTCACCCGTTGACTACTTG 771

RESULT 7 US-09-598-982C-26

Sequence 26, Application US/09598982C

GENERAL INFORMATION:

APPLICANT: Niles, Andrew

APPLICANT: Maffitt, Mark

APPLICANT: Haak-Frendsch, Mary

APPLICANT: Haak-Frendsch, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, TITLE OF INVNATION: AND METHODS OF MAKING SAME

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO: 26

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE: CDS

NAME/KEY: CDS

LOCATION: (7) .. (753)

US-09-598-982C-26

Query Match 98.8%; Score 761.4; DB 1; Length 771;

Best Local Similarity 99.2%; Pred. No. 0.04; Matches 765; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 GGGCCCTGAGAGAAAGATCTCGGGGTGGAGGCCCCAGGAGCTGGCCTGG 60

Db 1 GGGCCCTGAGAGAAAGATCTCGGGGTGGAGGCCCCAGGAGCTGGCCTGG 60

Qy 61 CGGTGAGGCTTAGAGTCCACGCCCTACTGGTACTCTGCGGGCTCCATC 120

Db 61 CGGTGAGGCTTAGAGTCCACGCCCTACTGGTACTCTGCGGGCTCCATC 120

Matches	Conservative	0	Mismatches	6	Indels	0	Gaps	0
QY	1	GGCCCTCAGAMAGATCGTCGGGTCAAGGGCCCGAGTGGCTCG 60						
Db	1	GGCCCTCAGAMAGATCGTCGGGTCAAGGGCCCGAGTGGCTCG 60						
QY	61	CAGGAGCTGAGTCCACGCCATACTGAGTCAGTCCTCG 120						
Db	61	CAGGAGCTGAGTCCACGCCATACTGAGTCAGTCCTCG 120						
QY	121	CAACCCAGGGTGCAGCTGGGGAGCACCTCTGGGGCTCTCATC 180						
Db	121	CAACCCAGGGTGCAGCTGGGGAGCACCTCTGGGGCTCTCATC 180						
QY	181	GCCTCAGGGTGCAGCTGGGGAGCACCTCTGGGGCTCTCATC 240						
Db	181	GCCTCAGGGTGCAGCTGGGGAGCACCTCTGGGGCTCTCATC 240						
QY	241	AGCAGGATCTGTCACCCACGGTCTACACCGCCAGTCAGTCCTCG 300						
Db	241	AGCAGGATCTGTCACCCACGGTCTACACCGCCAGTCAGTCCTCG 300						
QY	301	CTTAGAGCTGGAGCCGGTGAAGGTTCTCGGGTCACTACAGGGTACCTGGGGCT 360						
Db	301	CTTAGAGCTGGAGCCGGTGAAGGTTCTCGGGTCACTACAGGGTACCTGGGGCT 360						
QY	361	GCCTCAGAGACCTTCCCCGGGATGCCCTGCTGGTCACTGGGGCT 420						
Db	361	GCCTCAGAGACCTTCCCCGGGATGCCCTGCTGGTCACTGGGGCT 420						
QY	421	AATGAGGCCCCTCCACGCCATTTCCTGAGACAGGTGGCTCCATATGAA 480						
Db	421	AATGAGGCCCCTCCACGCCATTTCCTGAGACAGGTGGCTCCATATGAA 480						
QY	481	ACCCATTTGAGCAAATACCCCTTGCGGAGCTGCGGAGACTCC 540						
Db	481	ACCCATTTGAGCAAATACCCCTTGCGGAGCTGCGGAGACTCC 540						
QY	541	GTCCGTGAGCACTCTGTCGGAGACCGAGGACTCTGGGGACTCC 600						
Db	541	GTCCGTGAGCACTCTGTCGGAGACCGAGGACTCTGGGGACTCC 600						
QY	601	GGAGGCCCTGTCAGGGAATACCCCTTGCGGCTAACCGGAGACAGTC 660						
Db	601	GGAGGCCCTGTCAGGGAATACCCCTTGCGGCTAACCGGAGACAGTC 660						
QY	661	GGGAGGGCTGCCAACCGGCTGGCATCTACCCGGTCACTACTG 720						
Db	661	GGGAGGGCTGCCAACCGGCTGGCATCTACCCGGTCACTACTG 720						
QY	721	GACTGATCCACACTATGCCAAAAGCCGTGAGGGCCCGCTGT 771						
Db	721	GACTGATCCACACTATGCCAAAAGCCGTGAGGGCCCGCTGT 771						

RESULT 8
US-09-598-982C-40
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Hauk-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patentin version 3.3
; LENGTH: 771

RESULT 9
US-09-598-982C-42
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Hauk-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME

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; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIORITY FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: HOMO sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-42

Query Match 98.5%; Score 759.8; DB 1; Length 771;
Best Local Similarity 99.1%; Pred. No. 0; 04; Mismatches 0; Indels 0; Gaps 0;
Matches 764; Conservative 0; Pairs 0; Gaps 0;

Qy 1 GAGCCCTCGAAGAAGATCTCGGGGTGAGGAGGCCCCAGGGCAACTGGCCTGG 60
Db 1 GGCCTCTGAGAAAGATCTCGGGGTGAGGAGGCCCCAGGGCAACTGGCCTGG 60

Qy 61 CAGGTGAGCCTAGAGTCACGCCCTACTGATGACTCTTGCGGGACTCCATC 120
Db 61 CAGGTGAGCCTAGAGTCACGCCCTACTGATGACTCTTGCGGGACTCCATC 120
Qy 121 CCCGCCAGTGGTGTGACCCAGGGACTCGTGGACGGACTCAGGATCGGC 180
Db 121 CACCCCATGTTGTGACCCAGGGACTCGTGGACGGACTCAGGATCGGC 180
Qy 181 GCCTCAGGGTCACTCGCGGAGCACCTACTACCGGACCAAGCTCGCGGT 240
Db 181 GCCTCAGGGTCACTCGCGGAGCACCTACTACCGGACCAAGCTCGCGGT 240
Qy 241 AGCAGGATCTGTGACCCAGTGTACCGGACAGTGGCGGGACATCGCCCTG 300
Db 241 AGCAGGATCTGTGACCCAGTGTACCGGACAGTGGCGGGACATCGCCCTG 300
Qy 301 CTGGAGCTGGAGAGCGGGTGAAGGTTCTACCGGCCAGATGGCGGACATCGCCCTG 360
Db 301 CTGGAGCTGGAGAGCGGGTGAAGGTTCTACCGGCCAGATGGCGGACATCGCCCTG 360
Qy 361 GCTCTAGAGACCTTCCCCCGGGATCCGGCTGGTCACTGGTGGGGGAGATGGC 420
Db 361 GCTCTAGAGACCTTCCCCCGGGATCCGGCTGGTCACTGGTGGGGGAGATGGC 420
Qy 421 ATGATAGGGCTCCACCGCCATTCCTCTGAGAGTGGTCCATATGGAA 480
Db 421 ATGATAGGGCTCCACCGCCATTCCTCTGAGAGTGGTCCATATGGAA 480
Qy 481 AACCACTTGTGAGCAAATAACCACCTGGCGCTAACGGGACGAGTCGGCATC 540
Db 481 AACCACTTGTGAGCAAATAACCACCTGGCGCTAACGGGACGAGTCGGCATC 540
Qy 541 GTCGGTGGAGGAGATGGTGTGCGGGAGACCCGGGGACTCATGCCNGGGACTCC 600
Db 541 GTCGGTGGAGGAGATGGTGTGCGGGAGACCCGGGGACTCATGCCNGGGACTCC 600
Qy 601 GAGGGGGCTGTGAGCAAGTGAATGGAGCTGGAGCTGGAGGGGGCTGTGCG 660
Db 601 GAGGGGGCTGTGAGCAAGTGAATGGAGCTGGAGCTGGAGGGGGCTGTGCG 660
Qy 661 GCGGAGGGCTGTGCGGGAGCCACCGGGCTGTGAGCAACCCGGGGACTCATGCCAGGAGCGC 720
Db 661 GCGGAGGGCTGTGCGGGAGCCACCGGGCTGTGAGCAACCCGGGGACTCATGCCAGGAGCGC 720
Qy 721 GACTGTAATGCCACATATGTCGCCAAAAGCGCTGAGGCGCCGCGCTGT 771
Db 721 GACTGTAATGCCACATATGTCGCCAAAAGCGCTGAGGCGCCGCGCTGT 771

US-09-598-982C-42

Query Match 95.3%; Score 735; DB 1; Length 735;
Best Local Similarity 100.0%; Pred. No. 0; 054; Mismatches 0; Indels 0; Gaps 0;
Matches 735; Conservative 0; Pairs 0; Gaps 0;

Qy 1 1 ATCGTGGGGTCAAGGAGGCCCCAGGAGCAAGTGGCCCTGGAGGCTGAGACTC 78
Db 1 ATCGTGGGGTCAAGGAGGCCCCAGGAGCAAGTGGCCCTGGAGGCTGAGACTC 78
Qy 79 CACGCCCTACTGATGACTCTTGCGGGGCTCCATCCACCCCAAGTGGTGTG 138
Db 79 CACGCCCTACTGATGACTCTTGCGGGGCTCCATCCACCCCAAGTGGTGTG 138
Qy 199 CGGAGGAGGACTCTACTACCGGAGGACGGCTGTGCGGCTGAGGAGCTG 259
Db 199 CGGAGGAGGACTCTACTACCGGAGGACGGCTGTGCGGCTGAGGAGCTG 259
Qy 318 CCACAGTTCTACACGGCCAGATGGAGGGACATCGCCCTGTGGAGCTGGGGCG 318
Db 318 CCACAGTTCTACACGGCCAGATGGAGGGACATCGCCCTGTGGAGCTGGGGCG 318
Qy 379 CGGGGAGTCCGGCTGTGAGGAGCTGGCTGGGGATGGACATGTGAGGCCCTCCCA 438
Db 379 CGGGGAGTCCGGCTGTGAGGAGCTGGCTGGGGATGGACATGTGAGGCCCTCCCA 438
Qy 319 GTGAAAGGTCTCCAGGCCACCGGCTCACCGGTACCTGTGCCCTGTGAGACCTCCC 378
Db 319 GTGAAAGGTCTCCAGGCCACCGGCTCACCGGTACCTGTGCCCTGTGAGACCTCCC 378
Qy 439 CGCGCATTCCTCTGAGAGGGAGGTGCCATAATGGAAACCAAGTGTGAGCGA 498
Db 439 CGCGCATTCCTCTGAGAGGGAGGTGCCATAATGGAAACCAAGTGTGAGCGA 498
Qy 499 AAATACCACTTGGGGCTAACGGGAGGACTCTCCGATCGTCCGAGCATGCTG 558
Db 499 AAATACCACTTGGGGCTAACGGGAGGACTCTCCGATCGTCCGAGCATGCTG 558
Qy 541 AAATACCACTTGGGGCTAACGGGAGGAGCTCGTCCGAGCATGCTG 540
Db 541 AAATACCACTTGGGGCTAACGGGAGGAGCTCGTCCGAGCATGCTG 540
Qy 559 TGTGGGGAGAACCCGGGGACTCATCCAAAGGGAGCTCGGAGGCCCTGGTGC 618
Db 559 TGTGGGGAGAACCCGGGGACTCATCCAAAGGGAGCTCGGAGGCCCTGGTGC 618
Qy 601 TGTGGGGAGAACCCGGGGACTCATCCAAAGGGAGCTCGGAGGCCCTGGTGC 660
Db 601 TGTGGGGAGAACCCGGGGACTCATCCAAAGGGAGCTCGGAGGCCCTGGTGC 660
Qy 619 AAGGTGAATGGACCTGGTGGAGGGGGCTGTGAGGAGGGCTGTGCGGAG 678
Db 619 AAGGTGAATGGACCTGGTGGAGGGGGCTGTGAGGAGGGCTGTGCGGAG 678
Db 601 AAGGTGAATGGACCTGGTGGAGGGGGCTGTGAGGAGGGCTGTGCGGAG 660

```

RESULT 11
US-09-598-982C-8/c
Sequence 8, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 8
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7) .. (753)
US-09-598-982C-8

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
SEQ ID NO 1
QY 1 GGGCCCTCTGAGAAAGAATGTCGGGGTCAAGAGGCCCGAGGAGTCGCGCTCG 60
Db 113 GAGCCCCGGCGAGTGATCCAGTATGGGGCGGGAGACTCTACCTGCAGGGC 54
QY 61 CAGGTGAGCTGAGACTCCACGCCACTATGATGCACTCTGGGGAGCTC 113
Db 53 CACTGCTCTGGGGCGCTCTGACCCCCGACGATCTTCTCGAGGGGCC 1

RESULT 12
US-09-598-982C-20/c
Sequence 20, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7) .. (753)
US-09-598-982C-22

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
SEQ ID NO 1
QY 1 GGGCCCTCTGAGAAAGAATGTCGGGGTCAAGAGGCCCGAGGAGTCGCGCTCG 60
Db 113 GAGCCCCGGCGAGTGATCCAGTATGGGGCGGGAGACTCTACCTGCAGGGC 54
QY 61 CAGGTGAGCTGAGACTCCACGCCACTATGATGCACTCTGGGGAGCTC 113
Db 53 CACTGCTCTGGGGCGCTCTGACCCCCGACGATCTTCTCGAGGGGCC 1

RESULT 13
US-09-598-982C-22/c
Sequence 22, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7) .. (753)

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
SEQ ID NO 24
QY 1 GGGCCCTCTGAGAAAGAATGTCGGGGTCAAGAGGCCCGAGGAGTCGCGCTCG 60
Db 113 GAGCCCCGGCGAGTGATCCAGTATGGGGCGGGAGACTCTACCTGCAGGGC 54
QY 61 CAGGTGAGCTGAGACTCCACGCCACTATGATGCACTCTGGGGAGCTC 113
Db 53 CACTGCTCTGGGGCGCTCTGACCCCCGACGATCTTCTCGAGGGGCC 1

RESULT 14
US-09-598-982C-24/c
Sequence 24, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7) .. (753)

Query Match 3.7%; Score 28.2; DB 1; Length 771;

US-09-598-982C-24

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Qy 1 GAGCCCTCTGAGAAGAAATCTCGGGGGCTGGAGGAGGAGCACTGGCTGG 60
Db 113 GAGCCCTCTGAGAAGAAATCTCGGGGGCTGGAGGAGGAGCACTGGCTGG 54

Qy 61 CCGGTAGGCCCTAGAGTCACGCCCATACTGATGCACTTGCGGGGACTC 113
Db 53 CACTTGCTCTGGGCTCTGACCCCCGAGATCTTCTGAGGGGCC 1

RESULT 15
US-09-598-982C-26/C
Sequence 26, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 26
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-26

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
Qy 1 GAGCCCTCTGAGAAGAAATCTCGGGGGCTGGAGGAGGAGCACTGGCTGG 60
Db 113 GAGCCCTCTGAGAAGAAATCTCGGGGGCTGGAGGAGGAGCACTGGCTGG 54

Qy 61 CAGGTAGGCCCTAGAGTCACGCCCATACTGATGCACTTGCGGGGACTC 113
Db 53 CACTTGCTCTGGGCTCTGACCCCCGAGATCTTCTGAGGGGCC 1

RESULT 16
US-09-598-982C-36/C
Sequence 36, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens

RESULT 17
US-09-598-982C-38/C
Sequence 38, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 38
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-38

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
Qy 1 GAGCCCTCTGAGAAGAAATCTCGGGGGCTGGAGGAGGAGCACTGGCTGG 60
Db 113 GAGCCCTCTGAGAAGAAATCTCGGGGGCTGGAGGAGGAGCACTGGCTGG 54

Qy 61 CAGGTAGGCCCTAGAGTCACGCCCATACTGATGCACTTGCGGGGACTC 113
Db 53 CACTTGCTCTGGGCTCTGACCCCCGAGATCTTCTGAGGGGCC 1

RESULT 18
US-09-598-982C-40/C
Sequence 40, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendscho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 36
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens

1	735	100.0	735	1	US-09-998-982C-10	Sequence 10, Applic.
2	735	100.0	771	1	US-09-998-982C-8	Sequence 8, Applic.
3	731.8	99.6	771	1	US-09-998-982C-22	Sequence 22, Applic.
4	730.0.2	99.3	771	1	US-09-998-982C-38	Sequence 38, Applic.
5	728.6	99.1	771	1	US-09-998-982C-20	Sequence 20, Applic.
6	727	98.9	771	1	US-09-998-982C-56	Sequence 56, Applic.
7	725.4	98.7	771	1	US-09-998-982C-24	Sequence 24, Applic.
8	725.4	98.7	771	1	US-09-998-982C-26	Sequence 26, Applic.
9	723.8	98.5	771	1	US-09-998-982C-40	Sequence 40, Applic.
10	723.8	98.5	771	1	US-09-998-982C-42	Sequence 42, Applic.
11	27.6	3.8	771	1	US-09-998-982C-20	Sequence 20, Applic.
12	27.6	3.8	771	1	US-09-998-982C-36	Sequence 36, Applic.
13	27.2	3.7	735	1	US-09-998-982C-10	Sequence 10, Applic.
14	27.2	3.7	771	1	US-09-998-982C-8	Sequence 8, Applic.
15	27.2	3.7	771	1	US-09-998-982C-24	Sequence 24, Applic.
16	27.2	3.7	771	1	US-09-998-982C-26	Sequence 26, Applic.
17	25.6	3.5	771	1	US-09-998-982C-40	Sequence 40, Applic.
18	25.6	3.5	771	1	US-09-998-982C-42	Sequence 42, Applic.
19	24.2	3.3	771	1	US-09-998-982C-22	Sequence 22, Applic.
20	22.8	3.1	771	1	US-09-998-982C-38	Sequence 38, Applic.

ALIGNMENTS

US-09-598-982C-10
Sequence 10, Application US/095982C
GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendacio, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 10
LENGTH: 735
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(735)
US-09-598-982C-10

Query Match 100.0%; Score 735; DB 1; Length 735;
Best Local Similarity 100.0%; Pred. No. 0; 055; Mismatches 0; Indels 0; Gaps 0;
Matches 735; Conservative 0; Pmid: 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATCGTCTGGGTCAAGGAGCCCCCAAGGAACATGGCCCTGGCGAGGTAGGCCTAGAGTC 60
1 ATCGTCTGGGTCAAGGAGCCCCCAAGGAACATGGCCCTGGCGAGGTAGGCCTAGAGTC 60
Db 61 CACGGGCCATACTGGATGACTTCTGGGGGCTTCCTCATCCACCCAGTGGTGGCTG 120
QY 61 CACGGGCCATACTGGATGACTTCTGGGGGCTTCCTCATCCACCCAGTGGTGGCTG 120
Db 121 ACCGCAGCGCACTGGCTGGACGGACCTCAAGGATCTGGCGCCCTGGGCTCAACTG 180
QY 121 ACCGCAGCGCACTGGCTGGACGGACCTCAAGGATCTGGCGCCCTGGGCTCAACTG 180
Db 181 CGGGAGAGCACCTTCTAACAGGACCACTGTCGGCTGAGGAGCTGGCGATGGCAC 240
QY 181 CGGGAGAGCACCTTCTAACAGGACCACTGTCGGCTGAGGAGCTGGCGATGGCAC 240
Db 241 CCACAGCTCTAACCGCCCAAGATGGACGGACATGCGCTGCTGGAGGATCATGGCAC 300
QY 241 CCACAGCTCTAACCGCCCAAGATGGACGGACATGCGCTGCTGGAGGATCATGGCAC 300

```

RESULT 2
US-09-598-982C-8
Sequence 8, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Hake-Frendoch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIORITY APPLICATION NUMBER: 09/079, 970
PRIORITY FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 8
LENGTH: 771
TYPE: DNA
FEATURE:
ORGANISM: Homo sapiens
NAME/KEY: CDS
LOCATION: (7) .. (753)
;US-09-598-982C-8

Query Match          100.0%; Score 735; DB 1; Length 771;
Best Local Similarity 100.0%; Pred. No. 0.053; DB 1; Length 771;
Matches 735; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy
    1 ATCGTCGGGGTCAAGGAGGCCCAAGAGCAAGTGCCCTGCAGGTGAGCTGAAGTC 60
    19 ATCGTCGGGGTCAAGGAGGCCCAAGGTGAGCTGAAGTC 78
Oy
    61 CACGGCCATACTGGATGCACTCTGGGGGCTCCCATCCACCCACAGTGGTGTG 120
    79 CACGGCCATACTGGATGCACTCTGGGGGCTCCCATCCACCCAGTGGTGTG 138
Db
    121 ACCGCAGGCACTGGTGGACGGAGCTAAGGATCTGGCCCTCAAGGGTGGCAACTG 180
Qy
Db
    721 GTCCCCCAAAGCCG 735
Qy

```


FEATURE:
NAME/KEY: CDS
LOCATION: (7) .. (753)
US-09-598-982C-38

Query Match	99.3%	Score	730.2;	DB	1;	Length	771;
Best Local Similarity	99.6%	Pred.	0.055;				
Matches	732;	Conservative	0;	Mismatches	3;	Indels	0;
1	ATCGCTCGGGGTCAAGGAAAGCCCCCAGGACCAAGTGGCCCTGGCAGGTTAGCCCTGAGAGTC						60
19	ATCGCTGGGGTCAAGGAAAGCCCCCAGGACCAAGTGGCCCTGGCAGGTTAGCCCTGAGAGTC						78
61	CACGCCCATACTGATGACTTCTGCAGGGCTCCATCCACCCCCAGTGGGTGTTG						120

PRIOR APPLICATION NUMBER: 09/079, 970
CURRENT FILING DATE: 2000-06-21
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 20
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7) .. (753)
US-09-598-982C-20


```

Db      559 TATGCCGCGAATACCCGAAAGGACTTATGTCAAGGGAGGGGACCTCTGGTGTC 618
Qy      601 AAGGTGATGSCGACTTGCTCAGGGGGGGTAGCTGGGGAGGGTGTCCAG 660
Db      619 AAGGTGAATGCGACTTGCTCAGGGGGGGTAGCTGGGGAGGGTGTCCAG 678
Db      661 CCCAACGGCTTGACTACAGCGGTGCACTACTTGACTGGATCACCAT 720
Db      679 CCAACGGCTTGCGTACATCACCCGGTCACTACTTGACTGGATCACCAT 738
Qy      721 GTCCCCAAAAGCCG 735
Db      739 GTCCCCAAAAGCCG 753

RESULT 8
US-09-598-982C-26
; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Maffitt, Mark
; APPLICANT: Niles, Andrew
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-26

Query Match          98 %;  score 725.4;  DB 1;  Length 771;
Best Local Similarity 99.2%;  Pred. No. 0.058;  Mismatches 0;  Indels 0;  Gaps 0;
Matches 729;  Conservative 1;  APPLICANT: Maffitt, Mark
Qy      1 ATCGTCTGGGTCTAGGGCCCGAGAGGAGCTGGCTGCAGGTGAGGTC 60
Db      19 ATCGTCTGGGTCTAGGGCCCGAGAGGAGCTGGCTGCAGGTGAGGTC 78
Db      61 CACGGCCATACTGGTGTCTGGGGACTCTCTCATCCACCCAGTGGGCTG 120
Db      79 CACGGCCATACTGGTGTCTGGGGACTCTCTCATCCACCCAGTGGGCTG 138
Db      121 ACCGGCGCGACTGCGGGAGGAGGTCAAGGCTCTGGCGCTCAGGTGACTG 180
Db      139 ACCGGCGCGACTGCGGGAGGAGGTCAAGGCTCTGGCGCTCAGGTGACTG 198
Db      181 CGGGGAGCACCTCTACTACAGGACCGAGCTGCTGGGCGCTCAAGGACCTCCC 240
Db      199 CGGGGAGCACCTCTACTACAGGACCGAGCTGCTGGGCGCTCAAGGACCTCCC 258
Db      241 CCACAGTTCTACCCCGACATGGAGGCGCATGCCCTCTGAGGAGGCG 300
Db      259 CCACAGTTCTACCCCGACATGGAGGCGCATGCCCTCTGAGGAGGCG 318
Db      301 GTGAAAGTCTCAGCCAGATGCGACAGGCTGAGGACCTCTGGCT 360
Db      319 GTGAAAGTCTCAGCCAGATGCGACAGGCTGAGGACCTCTGGCT 378
Qy      361 CGGGGAGTGGCCGCTGGCTACTGGTGTGGCGCGATGTGACAATGAGGCCCTCCA 420
Qy      379 CGGGGAGTGGCTGCTGGTCACTGGTGTGGCGGATGTGGACAATGAGGCCCTCCA 438

RESULT 9
US-09-598-982C-40
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Maffitt, Mark
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Prendbo, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-40

Query Match          98 %;  score 723.8;  DB 1;  Length 771;
Best Local Similarity 99.0%;  Pred. No. 0.058;  Mismatches 0;  Indels 0;  Gaps 0;
Matches 728;  Conservative 1;  APPLICANT: Maffitt, Mark
Qy      1 ATCGTCTGGGTCTAGGGCCCGAGAGGAGCTGGCTGCAGGTGAGGTC 60
Db      19 ATCGTCTGGGTCTAGGGCCCGAGAGGAGCTGGCTGCAGGTGAGGTC 78
Db      61 CACGGCCATACTGGTGTCTGGGGGCTCTGAGGAGCTGGCTGCAGGTG 120
Db      79 CACGGCCATACTGGTGTCTGGGGGCTCTGAGGAGCTGGCTGCAGGTG 138
Db      121 ACCGGCGCGACTGCGGGAGGAGGTCAAGGCTCTGGCGCTCAGGTGACTG 180
Db      139 ACCGGCGCGACTGCGGGAGGAGGTCAAGGCTCTGGCGCTCAGGTGACTG 198
Db      181 CGGGGAGCACCTCTACTACAGGACCGAGCTGCTGGGCGCTCAAGGACCTCCC 240
Db      199 CGGGGAGCACCTCTACTACAGGACCGAGCTGCTGGGCGCTCAAGGACCTCCC 258
Db      241 CCACAGTTCTACCCCGACATGGAGGCGCATGCCCTCTGAGGAGGCG 300
Db      259 CCACAGTTCTACCCCGACATGGAGGCGCATGCCCTCTGAGGAGGCG 318
Db      301 GTGAAAGTCTCAGCCAGATGCGACAGGCTGAGGACCTCTGGCT 360
Db      319 GTGAAAGTCTCAGCCAGATGCGACAGGCTGAGGACCTCTGGCT 378
Qy      361 CGGGGAGTGGCCGCTGGCTACTGGTGTGGCGCGATGTGACAATGAGGCCCTCCA 420
Qy      379 CGGGGAGTGGCTGCTGGTCACTGGTGTGGCGGATGTGGACAATGAGGCCCTCCA 438

RESULT 10
US-09-598-982C-41
; Sequence 41, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Maffitt, Mark
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Prendbo, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 41
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-41

Query Match          98 %;  score 723.8;  DB 1;  Length 771;
Best Local Similarity 99.0%;  Pred. No. 0.058;  Mismatches 0;  Indels 0;  Gaps 0;
Matches 728;  Conservative 1;  APPLICANT: Maffitt, Mark
Qy      1 ATCGTCTGGGTCTAGGGCCCGAGAGGAGCTGGCTGCAGGTGAGGTC 60
Db      19 ATCGTCTGGGTCTAGGGCCCGAGAGGAGCTGGCTGCAGGTGAGGTC 78
Db      61 CACGGCCATACTGGTGTCTGGGGGCTCTGAGGAGCTGGCTGCAGGTG 120
Db      79 CACGGCCATACTGGTGTCTGGGGGCTCTGAGGAGCTGGCTGCAGGTG 138
Db      121 ACCGGCGCGACTGCGGGAGGAGGTCAAGGCTCTGGCGCTCAGGTGACTG 180
Db      139 ACCGGCGCGACTGCGGGAGGAGGTCAAGGCTCTGGCGCTCAGGTGACTG 198
Db      181 CGGGGAGCACCTCTACTACAGGACCGAGCTGCTGGGCGCTCAAGGACCTCCC 240
Db      199 CGGGGAGCACCTCTACTACAGGACCGAGCTGCTGGGCGCTCAAGGACCTCCC 258
Db      241 CCACAGTTCTACCCCGACATGGAGGCGCATGCCCTCTGAGGAGGCG 300
Db      259 CCACAGTTCTACCCCGACATGGAGGCGCATGCCCTCTGAGGAGGCG 318
Db      301 GTGAAAGTCTCAGCCAGATGCGACAGGCTGAGGACCTCTGGCT 360
Db      319 GTGAAAGTCTCAGCCAGATGCGACAGGCTGAGGACCTCTGGCT 378
Qy      361 CGGGGAGTGGCCGCTGGCTACTGGTGTGGCGCGATGTGACAATGAGGCCCTCCA 420
Qy      379 CGGGGAGTGGCTGCTGGTCACTGGTGTGGCGGATGTGGACAATGAGGCCCTCCA 438

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Db 139 ACCGAGCCACATCGGGACGGACGTCAGGATCTGCCCTCAGGGTCAACTG 198
Qy 301 GTGAAGGTCTTCAACGCACTTCAACGGTCACTCCGCCCCTGCTCAGAACCTCCCC 360
Db 319 GTGAACTCTCACGCACGTCACCTGCCCCTGCCTCAGAACCTCCCC 378
Qy 361 CGGGATGCGCTGGCTGGCTAGCTGGAGGAGCTGGAGGATGAGGCTCCA 420
Db 379 CGGGATGCGCTGGCTGGCTAGCTGGAGGAGCTGGAGGATGAGGCTCCA 438
Qy 421 CCGCCATTCTCTGAGAAGCTGGAGGAGCTGGAGGATGAGGCTCCA 480
Db 439 CGCCATTCTCTGAGAAGCTGGAGGAGCTGGAGGATGAGGCTCCA 498
Qy 481 AAATACCACTTGGGCTTACAAGGAGAGAATGGCATGCGGAGACATGCTG 540
Db 499 AAATACCACTTGGGCTTACAAGGAGAGAATGGCATGCGGAGACATGCTG 558
Qy 541 TGTGCGGAAACCGGAGGAGCTCATGGAAACCAATTGAGC 598
Db 559 TGTGCGGAAACCGGAGGAGCTCATGGAAACCAATTGAGC 600
Qy 601 AAGGTGAATGGGACCTGCTGGAGGGGGGTGGTCAAGGAGGACTGGGGGGCTGGTC 660
Db 619 AAGGTGAATGGGACCTGCTGGAGGGGGGTGGTCAAGGAGGACTGGGGGGCTGGTC 678
Qy 661 CCCAACGGCTGGATCTACCCGGTGACTACTGACTTGATGGATCCACCAT 720
Db 679 CCCAACGGCTGGATCTACCCGGTGACTACTGACTTGATGGATCCACCAT 738
Qy 721 GTCCCCAAAGCCG 735
Db 739 GTCCCCAAAGCCG 753

RESULT 10
US-09-598-982C-42
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Fredschö, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; LENGTH: 771
; SEQ ID NO: 42
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-42

Query Match 98.5%; Score 723; 8; DB 1; Length 771;
Best Local Similarity 99.0%; Pred. No. 0; 0.058; 0; 0; 0;
Matches 728; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
Qy 1 ATCGTGGGGCTTCAAGGCCCCAAGGAGGAGTGGCTGGCTGGAGCTGGAGTC 60
Db 19 ATCGTGGGGCTTCAAGGCCCCAAGGAGGAGTGGCTGGCTGGAGCTGGAGTC 78
Qy 61 CACGGCCATCTGGTGAATCTCTGGGGCTCTGAGGCTTCAACCCCAAGTGGCTG 120
Db 79 CACGGCCATCTGGTGAATCTCTGGGGCTCTGAGGCTTCAACCCCAAGTGGCTG 138
Qy 121 ACACGAGCGGACTGGTGAACCCGAGGAGTGGCTTCAAGGCTGGCTGGAGCTG 180

Db 139 ACCGAGCCACATCGGGACGGACGTCAGGATCTGCCCTCAGGGTCAACTG 198
Qy 181 CGGGAGCAACCTCTACTTACAGGAGCACTGCTGCGGTCAAGGATCATGTCAC 240
Db 199 CGGGAGCAACCTCTACTTACAGGAGCACTGCTGCGGTCAAGGATCATGTCAC 258
Qy 241 CCACAGTTTACACCGCCAGATGGAGCATCGCCCTGCTGGAACCTGGAGGGCG 300
Db 259 CCACAGTTTACACCGCCAGATGGAGCATCGCCCTGCTGCGGTCAAGGAGCG 318
Qy 301 GTGAGGGTCTTCAAGCCAGTGGCACATGGAAACCATTTGAGC 360
Db 319 GTGAGCGTCTCACGCCACTTCAACGGG 378
Qy 361 CGGGAGATCCGGCTCTGGTCACTGGCTGGGGATGAGCATGATGAGGCTCCA 420
Db 439 CGGGAGATCCGGCTCTGGTCACTGGCTGGGGATGAGCATGAGC 438
Qy 481 AAATACCACTTGGGCTTACAAGGAGAGAATGGCATGCGGAGACATGCTG 540
Db 559 TGTGCGGAAACCGGAGGAGCTCATGGAAACCAATTGAGC 600
Qy 601 AAGGTGAATGGGACCTGCTGGAGGGGGGTGGTCAAGGAGGACTGGGGGGCTGGTC 660
Db 619 AAGGTGAATGGGACCTGCTGGAGGGGGGTGGTCAAGGAGGACTGGGGGGCTGGTC 678
Qy 661 CCCAACGGCTGGATCTACCCGGTGACTACTGACTTGATGGATCCACCAT 720
Db 679 CCCAACGGCTGGATCTACCCGGTGACTACTGACTTGATGGATCCACCAT 738
Qy 721 GTCCCCAAAGCCG 735
Db 739 GTCCCCAAAGCCG 753

RESULT 11
US-09-598-982C-20/C
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Fredschö, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; LENGTH: 771
; SEQ ID NO: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-20

Query Match 98.5%; Score 27; 6; DB 1; Length 771;
Best Local Similarity 95.4%; Pred. No. 17; 0; 0; 0; 0;
Matches 99; Conservative 0; Mismatches 119; Indels 0; Gaps 0;
Qy 31 AAGTGGCCCTGGCAGGTGAGAGTCACGCCCATACTTGATGCCACTTGTGGGG 90

```

CURRENT FILING DATE: 2000-06-21
 PRIORITY APPLICATION NUMBER: 09/0779,970
 PRIOR FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 10
 LENGTH: 735
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (1)..(735)
 US-09-598-982C-10
 Query Match 3.7%; Score 27.2; DB 1; Length 735;
 Best Local Similarity 52.9%; Pred. No. 18; Mismatches 83; Indels 6; Gaps 2;
 Matches 100; Conservative 0; Mismatches 83; Indels 6; Gaps 2;
 QY 268 GGGGACATCCCTCTGAGCTGGAGCGGTGAAGTCCTCGACGCCAGCGCAGCG 327
 Db 453 GGGGACATCCCTCTGAGCTGGAGCGGTGAAGTCCTCGACGCCAGCGCAGCG 396
 QY 328 GTCACCTTCCCTCGCCAGAGAAATGGGGTGCCTGGGGCTCATTTGGCACA - 387
 Db 395 -TGGGCCAAGGAGCTGACTTACAGAGGGATCTGGGGAGGGAGGGAGGGAGGG 337
 QY 388 TGGGGCA--TGGGACATGATGAGGGCCCTCCACCCCCATTCTCTGAGGAGGG 444
 Db 336 CAGGGTGACCGTGTGGACCTGGCTGGAGAACCTTACCCCTCCAGCAGGGC 277
 QY 445 AAGGCCCC 453
 Db 276 GATGRCGC 268

RESULT 12
 US-09-598-982C-36/C
 Sequence 36, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 FILE REFERENCE: 34506_104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIOR APPLICATION NUMBER: 09/079, 970
 PRIOR FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (7)..(753)
 US-09-598-982C-36
 Query Match 3.8%; Score 27.6; DB 1; Length 771;
 Best Local Similarity 45.4%; Pred. No. 17; Mismatches 119; Indels 0; Gaps 0;
 Matches 99; Conservative 0;
 QY 31 AAGTGGCCCTGCGAGGTGAGGTCCACGGCCATACTGGATGCACTCTCGGG 90
 Db 266 ACTGRCGCTCACGAGATCTGCTGACCCGAGCTGCTGCGAGGGTGC 207
 QY 91 GCTCCCTCATCACCACCCAGGGCTGAGCTGAGCGAGCTGGGGAGGAGTC 150
 Db 206 TCTCCCGAGCTGACCTGAGCTTGTGACCTGGGGCCAGATCTTGTGCGCC 147
 QY 151 AAGGATCTGGCCCTCAGGGTCACTGGGGAGGAGCACTTACTACAGGACAG 210
 Db 146 GGGCGGCTCAGGACCACTGGGGATGAGGAGGCCCGCAGAGTGCATCCAGT 87
 QY 211 CTCTGCGGCTCAGGAGTCAGCTGTCACCCACATT 248
 Db 86 GGGCGGCTCAGGACTCTAGCTCACCTGCACGGACCACTT 49

RESULT 13
 US-09-598-982C-10/C
 Sequence 10, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 FILE REFERENCE: 34506_104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 LENGTH: 735
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (7)..(753)
 US-09-598-982C-8
 Query Match 3.7%; Score 27.2; DB 1; Length 771;
 Best Local Similarity 52.9%; Pred. No. 17; Mismatches 83; Indels 6; Gaps 2;
 Matches 100; Conservative 0; Mismatches 83; Indels 6; Gaps 2;
 QY 268 GGGGACATCCCTCTGAGCTGGAGCGGTGAAGTCCTCGACGCCAGCG 327
 Db 471 GGGGACATCCCTCTGAGCTGGAGCGGTGAAGTCCTCGACGCCAGCG 414
 QY 328 GTCACCTTCCCTCGCCAGAGACCTTCCCGGGAGATGGGGTGCCTGGGCACTGGC 387
 Db 413 -TCGCCCCAGCTGACCTGGGGAGGAGTCTCTGAGGGGG 355
 QY 388 TGGGGCA--TGGGACATGATGAGGGCCCTCCACCCATTCTCTGAGGAGGG 444

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Db 354 CAGGTGACCGTGTGGAGCTGGCTCCTCACCCCTCTCCACAGGCC 295 ; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7)..(753)
Qy 445 AAGGTCCCC 453
Db 294 GATGTCGGC 286
RESULT 15
US-09-598-982C-24/c
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 24
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-4
Query Match 3.7%; Score 27.2; DB 1; Length 771;
Best Local Similarity 52.9%; Pred. No. 17; Matches 100; Conservative 0; Mismatches 83; Indels 6; Gaps 2;
Matches 100; Conservative 0; Mismatches 83; Indels 6; Gaps 2;
Qy 268 GCGGACATCGCCCTGCGAGACTTCCTCCCGGAGGATCGCCAGTCACAGC 327
Db 471 GGGGACCTTCACCTCTCAAGGAAATGGCGTGCGAGGCCTCATCTGTCACA - 414
Qy 328 GTCACCTGTGCCCTGCTCAGAGACCTTCCCGGGATGCGCTGCGAGGCG 387
413 -TGGCCCGAGCCAGTGACCCAGCAGGCGATCTCCGGGGAGAAGGTCTGTGAGCGAGGG 355
Qy 388 TGGGGCGA---TGTGGACATGATGAGGCCCTCCACCGCCATTCTCTGAAGCAGGT 444
Db 354 CAGGGTGAACGCTGGAGCTGGAGACCTTCACCGCTCCAGTCAGCAGGGC 295
Qy 445 AAGGTCCCC 453
Db 294 GATGTCGGC 286
RESULT 17
US-09-598-982C-40/c
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
SOFTWARE: PatentIn version 3.3
SEQ ID NO 40
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-40
Query Match 3.5%; Score 25.6; DB 1; Length 771;
Best Local Similarity 52.4%; Pred. No. 17; Matches 99; Conservative 0; Mismatches 84; Indels 6; Gaps 2;
Matches 99; Conservative 0; Mismatches 84; Indels 6; Gaps 2;
Qy 268 GCGGACATCGCCCTGCGAGACTTCCTCCCGGAGGATCGCCAGTCACAGC 327
Db 471 GGGGACCTTCACCTCTCAAGGAAATGGCGTGCGAGGCCTCATCTGTCACA - 414
Qy 328 GTCACCTGTGCCCTGCTCAGAGACCTTCCCGGGATGCGCTGCGAGGCG 387
413 -TGGCCCGAGCCAGTGACCCAGCAGGCGATCTCCGGGGAGAAGGTCTGTGAGCGAGGG 355
Qy 388 TGGGGCGA---TGTGGACATGATGAGGCCCTCCACCGCCATTCTCTGAAGCAGGT 444
Db 354 CAGGGTGAACGCTGGAGCTGGAGACCTTCACCGCTCCAGTCAGCAGGGC 295
Qy 445 AAGGTCCCC 453
Db 294 GATGTCGGC 286

```

RESULT 18
US-09-598-982C-42/C
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 42
; LENGTH: 771
; FEATURE:
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-42

Query Match 3.5%; Score 25.6; DB 1; Length 771;
Best Local Similarity 52.4%; Pred. No. 17; Mismatches 0; Indels 6; Gaps 2;
Matches 99; Conservative 0; Mismatches 84; Indels 6; Gaps 2;

QY 268 GCGGACATGGCCCTGCTGGAGCTGGAGGAGCCGGTGAAGGTCTCCAGGCCACCTCACAGG 327
Db 471 GGCGACCTTCACCTGCTGGAGGAAATGGCGGGCTGAGGAGGCTCACTATGCCCCA- 414
Db 328 GTCACCCCTCCCTGGCTAGAACCTTCACCCGGGGATGCGCTGGGGTCACTGC 387
Qy 413 -TCGCCCCAGCCAGTGGACCCAGGGATCCGGGGAAAGGGTCTGAGGGGG 355
Qy 388 TGGGGGGA--TGGGACATGAGGCCCCTCCACCCGCAATTCTCTGAGGAGGTG 444
Db 354 CAGGGTGACCGTGTGGAGCTGGTCACTGCTCCAGCTCCAGAGGGC 295
Qy 445 AAGGTCCCC 453
Db 294 GATGTCGG 286

RESULT 19
US-09-598-982C-22/C
; Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 38
; LENGTH: 771
; FEATURE:
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-38

Query Match 3.1%; Score 22.8; DB 1; Length 771;
Best Local Similarity 44.0%; Pred. No. 17; Mismatches 0; Indels 122; Gaps 0;
Matches 96; Conservative 0; Mismatches 122; Indels 0; Gaps 0;

QY 31 AGTGGCCCTGGAGGTGGAGCTGGAGGAGCTCCACGGCCCATCTGGATCCACTCTGGGG 90
Db 266 ACTGTGGGTGAGATGATCTCTGACGGAGCTGTCCTGGTAGAGGTGC 207
Qy 91 GCTTCCCTCATGACCCCAAGTGGGTGAGGAGCTGGAGGAGGAGGAGTC 150
Db 206 TGCTCCCGAGTGGACCTGAGGGCGGCAATCTTGACCTGGTCCACGAGTC 147
Qy 151 AAGATCTGGCCCTAGGGGCAACTGCGGGAGGAGCACCTCTACTACGGGAG 210
Db 146 GTCGGGTGAGGACCAACTGGGGTGGATGAGGGAGGCCCGAGAGTCAGAT 87
Qy 211 CTCTGGCGGTGAGGAGTCTGTCACCCACAGTT 248
Db 86 GGGCGTGGACTCTGGCTCACTGCGCAGGCGACTT 49

SEARCH COMPLETED: August 26, 2005, 12:32:27
Job time : 4.68178 secs

OM nucleic - nucleic search, using sw model

Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds
4.206 Million cell updates/sec

Query Match 3.3%; Score 24.2; DB 1; Length 771;
Best Local Similarity 52.8%; Pred. No. 17;

Title: US-09-598-982C-20
 Perfect score: 771
 Sequence: 1 ggcccccctcgagaaaaaat.....cgtgaaggccccggcgtcgt 771

Scoring table: IDENTITY_NUC
 Searched: 10 seqs, 7674 residues
 Total number of hits satisfying chosen parameters: 20

Minimum DB seq length: 0
 Maximum DB seq length: inf

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 200 summaries

Database : US09598982C_rev.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description	
1	771	100.0	771	1 US-09-598-982C-20	
2	769.4	99.8	771	1 US-09-598-982C-36	
3	764.6	99.2	771	1 US-09-598-982C-8	
4	761.4	98.8	771	1 US-09-598-982C-22	
5	759.8	98.5	771	1 US-09-598-982C-38	
6	759	97.9	771	1 US-09-598-982C-24	
7	755	97.9	771	1 US-09-598-982C-26	
8	753.4	97.7	771	1 US-09-598-982C-40	
9	753	97.7	771	1 US-09-598-982C-42	
10	728.6	94.5	735	1 US-09-598-982C-10	
c	11	32.4	4.2	771	1 US-09-598-982C-20
c	12	4.2	771	1 US-09-598-982C-36	
c	13	28.2	3.7	771	1 US-09-598-982C-8
c	14	28.2	3.7	771	1 US-09-598-982C-22
c	15	28	3.7	771	1 US-09-598-982C-24
c	16	28.2	3.7	771	1 US-09-598-982C-26
c	17	28.2	3.7	771	1 US-09-598-982C-38
c	18	28.2	3.7	771	1 US-09-598-982C-40
c	19	28.2	3.7	771	1 US-09-598-982C-42
c	20	27.6	3.6	735	1 US-09-598-982C-10

ALIGNMENTS

RESULT 1
 US-09-598-982C-20
 Sequence 20, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Haak-Frendscho, Mary
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 APPLICANT: Haak-Frendscho, Mary
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-05-21
 PRIOR APPLICATION NUMBER: 09/079, 970
 PRIOR FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 20
 LENGTH: 771

RESULT 2
 US-09-598-982C-36
 Sequence 36, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 APPLICANT: Haak-Frendscho, Mary
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 TITLE OF INVENTION: AND METHODS OF MAKING SAME
 FILE REFERENCE: 34506.104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-05-21
 PRIOR APPLICATION NUMBER: 09/079, 970
 PRIOR FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 20
 LENGTH: 771

FILE REFERENCE: 34506_104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 PRIOR APPLICATION NUMBER: 09/079, 970
 PRIORITY FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO 36
 LENGTH: 771
 TYPE: DNA
 ORGANISM: HOMO SAPIENS
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (7)..(753)
 US-09-598-982C-36

Query Match 99.8%; Score 769.4; DB 1; Length 771;
 Best Local Similarity 99.9%; Pred. No. 0.036; Mismatches 0; Indels 0; Gaps 0;
 Matches 770; Conservative 0; Predicted 0; Gapped 0;

Qy 1 GGCCCCCTCGAGAAAAGATGTCGGGGTCAAGGAAGAATGCCCTGG 60
 Db 1 GGCCCCCTCGAGAAAAGATGTCGGGGTCAAGGAAGAATGCCCTGG 60

Qy 61 CAGGTAGCTGAGTCAAGGCCCCTACTGGATGCACTTCTGGGGGACTCCATC 120
 Db 61 CAGGTAGCTGAGTCAAGGCCCCTACTGGATGCACTTCTGGGGGACTCCATC 120

Qy 121 CACCCCACTGGTGTGACCCCGGGCTCGTGGACGGACGCTCAAGATCTGGCC 180
 Db 121 CACCCCACTGGTGTGACCCCGGGCTCGTGGACGGACGCTCAAGATCTGGCC 180

Qy 181 GCCTCAAGGTCACATGGGGAGCACCCTACTACCAAGGACCAAGTGCTGGGTC 240
 Db 181 GCCTCAAGGTCACATGGGGAGCACCCTACTACCAAGGACCAAGTGCTGGGTC 240

Qy 241 ACAGAGGATCATGTGCACCCACAGTTACCCGCCAGATGGGGAGGACATACCCCTG 300
 Db 241 ACAGAGGATCATGTGCACCCACAGTTACCCGCCAGATGGGGAGGACATACCCCTG 300

Qy 301 CTGGAGCTGGAGGGGGCTGGAGGTCTCCAGGCCAGTCCACACGCTCACCTGCCCCCT 360
 Db 301 CTGGAGCTGGAGGGGGCTGGAGGTCTCCAGGCCAGTCCACACGCTCACCTGCCCCCT 360

Qy 361 GCCTCAGAGACCTTCCCCCGGGATCCGGTCTGGTCACTGGCTGGGGATGTGGAC 420
 Db 361 GCCTCAGAGACCTTCCCCCGGGATCCGGTCTGGTCACTGGCTGGGGATGTGGAC 420

Qy 421 AATGATCAGCCTCCACCGCAATTACACCTTGCGGCCATACGGGGAGCAGCTGGC 480
 Db 421 AATGATCAGCCTCCACCGCAATTACACCTTGCGGCCATACGGGGAGCAGCTGGC 480

Qy 481 ACCACAATTTGAGCAGAAATACACCTTGCGGCCATACGGGGAGCAGCTGGC 540
 Db 481 ACCACAATTTGAGCAGAAATACACCTTGCGGCCATACGGGGAGCAGCTGGC 540

Qy 541 GTCCGTGAGCAATGCTGGTCAAGGTGAATGGCACTTGCGGCCATACGGGGACTCC 600
 Db 541 GTCCGTGAGCAATGCTGGTCAAGGTGAATGGCACTTGCGGCCATACGGGGACTCC 600

Qy 661 GCGGAGGGCTGGCCAGCCACCGCCCTGGCATCTACCCGGTCACTACTCTG 720
 Db 661 GCGGAGGGCTGGCCAGCCACCGCCCTGGCATCTACCCGGTCACTACTCTG 720

Qy 721 GACTGGTCCACCACTATGTCGCCAAACCGCTGAGCTACACCGTGTACCTACTTG 771
 Db 721 GACTGGTCCACCACTATGTCGCCAAACCGCTGAGCTACACCGTGTACCTACTTG 771

RESULT 3
 US-09-598-982C-8
 Sequence 8, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 APPLICANT: Haak-Frendscho, Mary
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 FILE REFERENCE: 34506_104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 PRIORITY FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO 8
 LENGTH: 771
 TYPE: DNA
 ORGANISM: HOMO SAPIENS
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (7)..(753)
 US-09-598-982C-8

Query Match 99.2%; Score 764.6; DB 1; Length 771;
 Best Local Similarity 99.5%; Pred. No. 0.038; Mismatches 0; Indels 0; Gaps 0;
 Matches 767; Conservative 0; Predicted 0; Gapped 0;

Qy 1 GGGCCCCCTCGAGAAAAGATGTCGGGGGCTCAGGGAGCCCGGGAGGAGTGGCCCTGG 60
 Db 1 GGGCCCCCTCGAGAAAAGATGTCGGGGGCTCAGGGAGCCCGGGAGGAGTGGCCCTGG 60

Qy 61 CAGGTAGCTGAGTCAAGGCCCCTACTGGATGCACTTCTGGGGGACTCCATC 120
 Db 61 CAGGTAGCTGAGTCAAGGCCCCTACTGGATGCACTTCTGGGGGACTCCATC 120

Qy 121 CACCCCACTGGTGTGACCCCGGGCTCGTGGACGGACGCTCAAGATCTGGCC 180
 Db 121 CACCCCACTGGTGTGACCCCGGGCTCGTGGACGGACGCTCAAGATCTGGCC 180

Qy 181 GCCTCAGAGACCTTCCCCCGGGATCCGGTCTGGTCACTGGCTGGGGATGTGGAC 240
 Db 181 GCCTCAGAGACCTTCCCCCGGGATCCGGTCTGGTCACTGGCTGGGGATGTGGAC 240

Qy 241 ACGAGGATCATGTGCACCCACAGTTACCCGCCAGATGGGGAGGACATACCCCTG 300
 Db 241 ACGAGGATCATGTGCACCCACAGTTACCCGCCAGATGGGGAGGACATACCCCTG 300

Qy 361 GCCTCAGAGACCTTCCCCCGGGATCCGGTCTGGTCACTGGCTGGGGATGTGGAC 420
 Db 361 GCCTCAGAGACCTTCCCCCGGGATCCGGTCTGGTCACTGGCTGGGGATGTGGAC 420

Qy 421 AATGATCAGCCTCCACCGCAATTACACCTTGCGGCCATACGGGGAGCAGCTGGC 480
 Db 421 AATGATCAGCCTCCACCGCAATTACACCTTGCGGCCATACGGGGAGCAGCTGGC 480

Qy 541 GTCCGTGAGCAATGCTGGTCAAGGTGAATGGCACTTGCGGCCATACGGGGACTCC 600
 Db 541 GTCCGTGAGCAATGCTGGTCAAGGTGAATGGCACTTGCGGCCATACGGGGACTCC 600

Qy 601 GAGGGGGCTGGTCAAGGTGAATGGCACTTGCGGCCATACGGGGACTCC 660
 Db 601 GAGGGGGCTGGTCAAGGTGAATGGCACTTGCGGCCATACGGGGACTCC 660

Qy 661 GCGGAGGGCTGGCCAGCCACCGCCCTGGCATCTACCCGGTCACTACTCTG 720
 Db 661 GCGGAGGGCTGGCCAGCCACCGCCCTGGCATCTACCCGGTCACTACTCTG 720

Qy 721 GACTGGTCCACCACTATGTCGCCAAACCGCTGAGCTACACCGTGTACCTACTTG 771
 Db 721 GACTGGTCCACCACTATGTCGCCAAACCGCTGAGCTACACCGTGTACCTACTTG 771

Qy 771 GACTGGTCCACCACTATGTCGCCAAACCGCTGAGCTACACCGTGTACCTACTTG 771

Db 601 GGAGGGCCCTGGTGTGAGGGTGAACCGGAGCTGGCTGAGGGGGCTGGTGTGGCTGG 660

Db 541 GTCCGTGAGCACTCTGGTGTGAGGGTGAACCGGAGCTGGCTGAGGGGGCTGGTGTGGCTGG 660

Qy 601 GGAGGGCCCTGGTGTGAGGGTGAACCGGAGCTGGCTGAGGGGGCTGGTGTGGCTGG 660

Db 541 GTCCGTGAGCACTCTGGTGTGAGGGTGAACCGGAGCTGGCTGAGGGGGCTGGTGTGGCTGG 660

QY 661 GCGGAGGGCTGTGCCAGCCACCGGCTTGCACTCAACCGGTGACTACTACTG 720
 Db 661 GGCGAGGGCTGTGCCAGCCACCGGCTTGCACTCAACCGGTGACTACTACTG 720
 QY 721 GACTGGATCCACACTATGTCGCCAAGAAAGCCGTGAAAGCGGCAGCGCAGCTG 771
 Db 721 GACTGGATCCACACTATGTCGCCAAGAAAGCCGTGAAAGCGGCAGCGCAGCTG 771

RESULT⁴ US-09-598-982C-22

: Sequence 22; Application US/09598982C

: GENERAL INFORMATION:

: APPLICANT: Niles, Andrew

: APPLICANT: Maffitt, Mark

: APPLICANT: Haak-Frendscho, Mary

: TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, TITLE OF INVENTION: AND METHODS OF MAKING SAME

: FILE REFERENCE: 34506.104

: CURRENT APPLICATION NUMBER: US/09/598, 982C

: CURRENT FILING DATE: 2000-06-21

: PRIOR APPLICATION NUMBER: 09/079, 970

: PRIOR FILING DATE: 1998-04-15

: NUMBER OF SEQ ID NOS: 52

: SOFTWARE: PatentIn version 3.3

: SEQ ID NO 22

: LENGTH: 771

: TYPE: DNA

: ORGANISM: Homo sapiens

: FEATURE:

: NAME/KEY: CDS

: LOCATION: (7)..(753)

: US-09-598-982C-22

Query Match 98.8%; Score 761.4; DB 1; Length 771;
 Best Local Similarity 99.2%; Pred. No. 0:0-9; Mismatches 6; Indels 0; Gaps 0;
 Matches 765; Conservative 0; MisMatches 6; Indels 0; Gaps 0;

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QY 1 GGGCCCTCTGAAAGAAAGAATGTCGGGGTCAAGAGGCCCCAGGAGAAGTGGCC 60
Db 1 GGGCCCTCTGAAAGAAATGTCGGGGTCAAGAGGCCCCAGGAGAAGTGGCC 60

```

QY 61 CAGGTGGAGCTGAGTCCACGGCCATACTGGAACCTCTGGGGGACTCTCTCATC 120
 Db 61 CAGGTGGAGCTGAGTCCACGGCCATACTGGAACCTCTGGGGGACTCTCTCATC 120
 QY 121 CACCCCGAGTGGTGAATCTGACGCCGCGCTGCGTGGACGGAGCTGTCAGGATCTG 180
 Db 121 CACCCCGAGTGGTGAATCTGACGCCGCGCTGCGTGGACGGAGCTGTCAGGATCTG 180
 QY 181 GCCTTCAGGGTGAACGGGGAGCACCTTAATCTACCAAGGACGGAGCTGGCGTC 240
 Db 181 GCCTTCAGGGTGAACGGGGAGCACCTTAATCTACCAAGGACGGAGCTGGCGTC 240
 QY 241 AGCAGGATCATCTGTCACCCACAGTTACACGCCAGATCCGGGACATGCCCTG 300
 Db 241 AGCAGGATCATCTGTCACCCACAGTTACACGCCAGATCCGGGACATGCCCTG 300
 QY 301 CTGGAGCTGAGGAGACCCGGTGAAGGTCTCCAGCCACAGCTGGTCAACCTCTCCC 360
 Db 301 CTGGAGCTGAGGAGACCCGGTGAAGGTCTCCAGCCACAGCTGGTCAACCTCTCCC 360
 QY 361 GCTCTAGAGACCTTCCCCCGGGATGCGCTCTGGGGCTGAGGAGCTGGCGTC 420
 Db 361 GCTCTAGAGACCTTCCCCCGGGATGCGCTCTGGGGCTGAGGAGCTGGCGTC 420
 QY 421 ATATGAGGGCTCCACCGCCTTCCTGAGGAGGTCCATATGAA 480
 Db 421 ATATGAGGGCTCCACCGCCTTCCTGAGGAGGTCCATATGAA 480
 QY 481 AACCACTATGTTGAGGAAATAACCACTTGGCGCTAACGGGAGACGGTGGCATC 540
 Db 481 AACCACTATGTTGAGGAAATAACCACTTGGCGCTAACGGGAGACGGTGGCATC 540

RESULT⁵ US-09-598-982C-38

: Sequence 38; Application US/09598982C

: GENERAL INFORMATION:

: APPLICANT: Niles, Andrew

: APPLICANT: Maffitt, Mark

: APPLICANT: Haak-Frendscho, Mary

: TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, TITLE OF INVENTION: AND METHODS OF MAKING SAME

: FILE REFERENCE: 34506.104

: CURRENT APPLICATION NUMBER: US/09/598, 982C

: CURRENT FILING DATE: 2000-06-21

: PRIOR APPLICATION NUMBER: 09/079, 970

: PRIOR FILING DATE: 1998-04-15

: NUMBER OF SEQ ID NOS: 52

: SOFTWARE: PatentIn version 3.3

: SEQ ID NO 38

: LENGTH: 771

: TYPE: DNA

: ORGANISM: Homo sapiens

: FEATURE:

: NAME/KEY: CDS

: LOCATION: (7)..(753)

: US-09-598-982C-38

Query Match 98.5%; Score 759.8; DB 1; Length 771;
 Best Local Similarity 99.1%; Pred. No. 0:0-4; Mismatches 7; Indels 0; Gaps 0;
 Matches 784; Conservative 0; MisMatches 7; Indels 0; Gaps 0;

```

QY 1 GGGCCCTCTGAAAGAAAGAATGTCGGGGTCAAGAGGCCCCAGGAGAAGTGGCC 60
Db 1 GGGCCCTCTGAAAGAAATGTCGGGGTCAAGAGGCCCCAGGAGAAGTGGCC 60

```

QY 61 CAGGTGGAGCTGAGTCCACGGCCATACTGGAACCTCTGGGGGACTCTCTCATC 120
 Db 61 CAGGTGGAGCTGAGTCCACGGCCATACTGGAACCTCTGGGGGACTCTCTCATC 120
 QY 121 CACCCCGAGTGGTGAATCTGACGCCGCGCTGCGTGGACGGAGCTGTCAGGATCTG 180
 Db 121 CACCCCGAGTGGTGAATCTGACGCCGCGCTGCGTGGACGGAGCTGTCAGGATCTG 180
 QY 181 GCCTTCAGGGTGAACGGGGAGCACCTTAATCTACCAAGGACGGAGCTGGCGTC 240
 Db 181 GCCTTCAGGGTGAACGGGGAGCACCTTAATCTACCAAGGACGGAGCTGGCGTC 240
 QY 241 AGCAGGATCATCTGTCACCCACAGTTACACGCCAGATCCGGGACATGCCCTG 300
 Db 241 AGCAGGATCATCTGTCACCCACAGTTACACGCCAGATCCGGGACATGCCCTG 300
 QY 301 CTGGAGCTGAGGAGACCCGGTGAAGGTCTCCAGCCACAGCTGGTCAACCTCTCCC 360
 Db 301 CTGGAGCTGAGGAGACCCGGTGAAGGTCTCCAGCCACAGCTGGTCAACCTCTCCC 360
 QY 361 GCTCTAGAGACCTTCCCCCGGGATGCGCTCTGGGGCTGAGGAGCTGGCGTC 420
 Db 361 GCTCTAGAGACCTTCCCCCGGGATGCGCTCTGGGGCTGAGGAGCTGGCGTC 420
 QY 421 ATATGAGGGCTCCACCGCCTTCCTGAGGAGGTCCATATGAA 480
 Db 421 ATATGAGGGCTCCACCGCCTTCCTGAGGAGGTCCATATGAA 480
 QY 481 AACCACTATGTTGAGGAAATAACCACTTGGCGCTAACGGGAGACGGTGGCATC 540
 Db 481 AACCACTATGTTGAGGAAATAACCACTTGGCGCTAACGGGAGACGGTGGCATC 540

```

Db 361 GCCTCAGAGACCTTCCCCGGGATGCCGTCTGGTCACCTGGTGGGGCGATCTGGAC 420
Qy 421 AATGATGAGCGCCCTCCACCSCCAT"POCTCTGAACGAGGTGAAAGTCCCATAATGAA 480
Db 421 ATGATGAGCGCCCTCCACCSCCAT"POCTCTGAACGAGGTGAAAGTCCCATAATGAA 480
Qy 481 ACCACATTGGACGCAAATACCACTTGGGCTACGGGGACGAGCTGGCCTC 540
Db 481 ACCACATTGGACGCAAATACCACTTGGGCTACGGGGACGAGCTGGCCTC 540
Qy 541 GTCGGTGACGAACTGTCGACGGAAACACGGAGGACTATGCCAGGGACTCC 600
Db 541 GTCGGTGACGAACTGTCGACGGAAACACGGAGGACTATGCCAGGGACTCC 600
Qy 601 GAGGGGCCCTGTTGTCAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 660
Db 601 GAGGGGCCCTGTTGTCAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 660
Qy 661 GCGGAGGGCTGTCGCAAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 720
Db 661 GCGGAGGGCTGTCGCAAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 720
Qy 721 GACTGGATCCACACTATGTCCTAAAAGCGGTGAGCGCCGCGCTGT 771
Db 721 GACTGGATCCACACTATGTCCTAAAAGCGGTGAGCGCCGCGCTGT 771

RESULT 6
US-09-598-982C-24
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-24

Query Match 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0.042; Indels 0; Gaps 0;
Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 GGGCCCTCTGAGAAAGATCTGCGGGGTCAAGGAGCCCCAGGACCTGGCCCTGG 60
Db 1 GGGCCCTCTGAGAAAGATCTGCGGGGTCAAGGAGCCCCAGGACCTGGCCCTGG 60
Qy 61 CAGGTGAGCTGAGAGTCACCCGACCTTACTGGATGACTCTGCAAGGCTCCATC 120
Db 61 CAGGTGAGCTGAGAGTCACCCGACCTTACTGGATGACTCTGCAAGGCTCCATC 120
Qy 121 CACCCCGATGGTGTGACCCGACCTTACTGGATGACTCTGCAAGGCTCCATC 180
Db 121 CACCCCGATGGTGTGACCCGACCTTACTGGATGACTCTGCAAGGCTCCATC 180
Qy 121 CACCCCGATGGTGTGACCCGACCTTACTGGATGACTCTGCAAGGCTCCATC 180
Db 181 GCGCTCAGGTCGAACTGGGAGGACCTCTAACCGACGCTGCGGCTGCGGC 240
Qy 181 GCGCTCAGGTCGAACTGGGAGGACCTCTAACCGACGCTGCGGCTGCGGC 240
Db 181 GCGCTCAGGTCGAACTGGGAGGACCTCTAACCGACGCTGCGGCTGCGGC 240
Qy 241 AGCAGGATCATCGACACACAGTCAACCCAGATGGGACATCGCCCTG 300
Db 241 AGCAGGATCATCGACACACAGTCAACCCAGATGGGACATCGCCCTG 300
Qy 301 CTGGAGCTGAGGGACCGGGAAGTCTCACGGCACGTCACAGGTCACTGGGGCTCCCT 360
Db 301 CTGGAGCTGAGGGACCGGGAAGTCTCACGGCACGTCACAGGTCACTGGGGCTCCCT 360
Qy 361 GCTCAGAGACCTTCCCCGGGATGCCGTCTGGTCACGGGTCACTGGGGCTCCCT 420
Db 361 GCTCAGAGACCTTCCCCGGGATGCCGTCTGGTCACGGGTCACTGGGGCTCCCT 420
Qy 421 AATGATGAGCGCCCTCCACCSCCAT"POCTCTGAACGAGGTGAAAGTCCCATAATGAA 480
Db 421 AATGATGAGCGCCCTCCACCSCCAT"POCTCTGAACGAGGTGAAAGTCCCATAATGAA 480
Qy 481 GTCGGTGACGAACTGTCGACGGAAACACGGAGGACTATGCCAGGGACTCC 540
Db 481 GTCGGTGACGAACTGTCGACGGAAACACGGAGGACTATGCCAGGGACTCC 540
Qy 541 GTCGGTGACGAACTGTCGACGGAAACACGGAGGACTATGCCAGGGACTCC 600
Db 541 GTCGGTGACGAACTGTCGACGGAAACACGGAGGACTATGCCAGGGACTCC 600
Qy 601 GAGGGGCCCTGTTGTCAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 660
Db 601 GAGGGGCCCTGTTGTCAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 660
Qy 661 GCGGAGGGCTGTCGCAAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 720
Db 661 GCGGAGGGCTGTCGCAAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 720
Qy 721 GACTGGATCCACACTATGTCCTAAAAGCGGTGAGCGCCGCGCTGT 771
Db 721 GACTGGATCCACACTATGTCCTAAAAGCGGTGAGCGCCGCGCTGT 771

RESULT 7
US-09-598-982C-26
; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-26

Query Match 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0.042; Indels 0; Gaps 0;
Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 GGGCCCTCTGAGAAAGATCTGCGGGGTCAAGGAGCCCCAGGACCTGGCCCTGG 60
Db 1 GGGCCCTCTGAGAAAGATCTGCGGGGTCAAGGAGCCCCAGGACCTGGCCCTGG 60
Qy 61 CAGGTGAGCTGAGAGTCACCCGACCTTACTGGATGACTCTGCAAGGCTCCATC 120
Db 61 CAGGTGAGCTGAGAGTCACCCGACCTTACTGGATGACTCTGCAAGGCTCCATC 120
Qy 121 CACCCCGATGGTGTGACCCGACCTTACTGGATGACTCTGCAAGGCTCCATC 180
Db 121 CACCCCGATGGTGTGACCCGACCTTACTGGATGACTCTGCAAGGCTCCATC 180
Qy 121 CACCCCGATGGTGTGACCCGACCTTACTGGATGACTCTGCAAGGCTCCATC 180
Db 181 GCGCTCAGGTCGAACTGGGAGGACCTCTAACCGACGCTGCGGCTGCGGC 240
Qy 181 GCGCTCAGGTCGAACTGGGAGGACCTCTAACCGACGCTGCGGCTGCGGC 240
Db 181 GCGCTCAGGTCGAACTGGGAGGACCTCTAACCGACGCTGCGGCTGCGGC 240
Qy 241 AGCAGGATCATCGACACACAGTCAACCCAGATGGGACATCGCCCTG 300
Db 241 AGCAGGATCATCGACACACAGTCAACCCAGATGGGACATCGCCCTG 300
Qy 301 CTGGAGCTGAGGGACCGGGAAGTCTCACGGCACGTCACAGGTCACTGGGGCTCCCT 360
Db 301 CTGGAGCTGAGGGACCGGGAAGTCTCACGGCACGTCACAGGTCACTGGGGCTCCCT 360
Qy 361 GCTCAGAGACCTTCCCCGGGATGCCGTCTGGTCACGGGTCACTGGGGCTCCCT 420
Db 361 GCTCAGAGACCTTCCCCGGGATGCCGTCTGGTCACGGGTCACTGGGGCTCCCT 420
Qy 421 AATGATGAGCGCCCTCCACCSCCAT"POCTCTGAACGAGGTGAAAGTCCCATAATGAA 480
Db 421 AATGATGAGCGCCCTCCACCSCCAT"POCTCTGAACGAGGTGAAAGTCCCATAATGAA 480
Qy 481 GTCGGTGACGAACTGTCGACGGAAACACGGAGGACTATGCCAGGGACTCC 540
Db 481 GTCGGTGACGAACTGTCGACGGAAACACGGAGGACTATGCCAGGGACTCC 540
Qy 541 GTCGGTGACGAACTGTCGACGGAAACACGGAGGACTATGCCAGGGACTCC 600
Db 541 GTCGGTGACGAACTGTCGACGGAAACACGGAGGACTATGCCAGGGACTCC 600
Qy 601 GAGGGGCCCTGTTGTCAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 660
Db 601 GAGGGGCCCTGTTGTCAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 660
Qy 661 GCGGAGGGCTGTCGCAAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 720
Db 661 GCGGAGGGCTGTCGCAAGGTGAATGGCACTGCGACCTGGCTGAGGCTGG 720
Qy 721 GACTGGATCCACACTATGTCCTAAAAGCGGTGAGCGCCGCGCTGT 771
Db 721 GACTGGATCCACACTATGTCCTAAAAGCGGTGAGCGCCGCGCTGT 771

RESULT 8
US-09-598-982C-26
; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-26

Query Match 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0.042; Indels 0; Gaps 0;
Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
```

QY 121 CACCCCACTGGGTGCTGACCGCCGGGGTGGTGGGACCGAGCTCAGGATCTGGCC 180
 Db 121 CACCCCACTGGGTGCTGACCGCCGGGGTGGTGGGACCGAGCTCAGGATCTGGCC 180
 QY 181 GCCTCAGGGTGCAACTGCGGGAGCACCTTAATACAGGACAGCTGCTCGCGTC 240
 Db 181 GCCTCAGGGTGCAACTGCGGGAGCACCTTAATACAGGACAGCTGCTCGCGTC 240
 QY 241 AGCAGATCATGTCGACCCACAGTTCTACACCGCCAGTGGAGGGACATGCCCTG 300
 Db 241 AGCAGATCATGTCGACCCACAGTTCTACACCGCCAGTGGAGGGACATGCCCTG 300
 QY 301 CTGGACTGGAGAGCCGGTGGAGGCTCCAGCACGTCACCCCTGGCCCT 360
 Db 301 CTGGACTGGAGAGCCGGTGGAGGCTCCAGCACGTCACCCCTGGCCCT 360
 QY 361 GCCTCAGAGACCTTCCCCGGGGATGCCCTGGCTGGTCACTGGGAGATGGAC 420
 Db 361 GCCTCAGAGACCTTCCCCGGGGATGCCCTGGCTGGTCACTGGGAGATGGAC 420
 QY 421 AATGATGAGCCCTCCACCCCATTCCTCTGAAGCAGGTAAGGTCCATATGAA 480
 Db 421 AATGATGAGCCCTCCACCCCATTCCTCTGAAGCAGGTAAGGTCCATATGAA 480
 QY 481 AACCACTTGTACCCAAATTACACCTTGGGCTTACAGGGAGACGGTCGGCATC 540
 Db 481 AACCACTTGTACCCAAATTACACCTTGGGCTTACAGGGAGACGGTCGGCATC 540
 QY 541 GTCCCGTGAACGAACTGCTGTCGGGAAACACCCGGAGGACTCTAGCCAGGCACTTC 600
 Db 541 GTCCCGTGAACGAACTGCTGTCGGGAAACACCCGGAGGACTCTAGCCAGGCACTTC 600
 QY 601 GGAGGGCCCTCTGGTGAAGGTGATGGCACCCTGGCTTACAGGGAGACGGTCGGCATC 660
 Db 601 GGAGGGCCCTCTGGTGAAGGTGATGGCACCCTGGCTTACAGGGAGACGGTCGGCATC 660
 QY 661 GCGGAGGACTCTGGTGAAGGTGATGGCACCCTGGCTTACAGGGAGACGGTCGGCATC 720
 Db 661 GCGGAGGACTCTGGTGAAGGTGATGGCACCCTGGCTTACAGGGAGACGGTCGGCATC 720
 QY 721 GACTGATCCACCACTATGTCCTAAAAGCGGTGAAGCGCCGGCTGT 771
 Db 721 GACTGATCCACCACTATGTCCTAAAAGCGGTGAAGCGCCGGCTGT 771

RESULT 8
 US-09-598-982C-40

; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Hask-Prandscho, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34505_104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIORITY FILING NUMBER: 09/079, 970
 ; PRIORITY FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3

; NAME/KEY: CDS
 ; LOCATION: (7) .. (753)
 ; US-09-598-982C-40

Query Match 97.7%; Score 753.4; DB 1; Length 771;
 Best Local Similarity 98.6%; Pred. No. 0.042; Mismatches 11; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAGATACTGTTGGGGCTCAGGGCCCCAGGAGCTGGCCCTTG 60
 Db 1 GGGCCCTCGAGAAAGATACTGTTGGGGCTCAGGGCCCCAGGAGCTGGCCCTTG 60
 QY 61 CAGGTGAGCTGAGAGTGCACCGGCCCTAATGTCCTTCGGGCGGGCTCCCTCATC 120
 Db 61 CAGGTGAGCTGAGAGTGCACCGGCCCTAATGTCCTTCGGGCGGGCTCCCTCATC 120
 QY 121 CACCCCACTGGGTGCTGACCGCCGGGGTGGTGGGACCGAGCTCAGGATCTGGCC 180
 Db 121 CACCCCACTGGGTGCTGACCGCCGGGGTGGTGGGACCGAGCTCAGGATCTGGCC 180
 QY 181 GCCTCAGGGTGCAACTGCGGGAGCACCTTAATACAGGACAGCTGCTCGCGTC 240
 Db 181 GCCTCAGGGTGCAACTGCGGGAGCACCTTAATACAGGACAGCTGCTCGCGTC 240
 QY 241 AGCAGATCATGTCGACCCACAGTTCTACACCGCCAGTGGAGGGACATGCCCTG 300
 Db 241 AGCAGATCATGTCGACCCACAGTTCTACACCGCCAGTGGAGGGACATGCCCTG 300
 QY 301 CTGGACTGGAGAGCCGGTGGAGGCTCCAGCACGTCACCCCTGGCCCT 360
 Db 301 CTGGACTGGAGAGCCGGTGGAGGCTCCAGCACGTCACCCCTGGCCCT 360
 QY 361 GCCTCAGAGACCTTCCCCGGGGATGCCCTGGCTGGTCACTGGGAGATGGAC 420
 Db 361 GCCTCAGAGACCTTCCCCGGGGATGCCCTGGCTGGTCACTGGGAGATGGAC 420
 QY 421 AATGATGAGCCCTCCACCCCATTCCTCTGAAGCAGGTAAGGTCCATATGAA 480
 Db 421 AATGATGAGCCCTCCACCCCATTCCTCTGAAGCAGGTAAGGTCCATATGAA 480
 QY 481 AACCACTTGTACCCAAATTACACCTTGGGCTTACAGGGAGACGGTCGGCATC 540
 Db 481 AACCACTTGTACCCAAATTACACCTTGGGCTTACAGGGAGACGGTCGGCATC 540
 QY 541 GTCCCGTGAACGAACTGCTGTCGGGAAACACCCGGAGGACTCTAGCCAGGCACTTC 600
 Db 541 GTCCCGTGAACGAACTGCTGTCGGGAAACACCCGGAGGACTCTAGCCAGGCACTTC 600
 QY 601 GGAGGGCCCTCTGGTGAAGGTGATGGCACCCTGGCTTACAGGGAGACGGTCGGCATC 660
 Db 601 GGAGGGCCCTCTGGTGAAGGTGATGGCACCCTGGCTTACAGGGAGACGGTCGGCATC 660
 QY 661 GCGGAGGACTCTGGTGAAGGTGATGGCACCCTGGCTTACAGGGAGACGGTCGGCATC 720
 Db 661 GCGGAGGACTCTGGTGAAGGTGATGGCACCCTGGCTTACAGGGAGACGGTCGGCATC 720
 QY 721 GACTGATCCACCACTATGTCCTAAAAGCGGTGAAGCGCCGGCTGT 771
 Db 721 GACTGATCCACCACTATGTCCTAAAAGCGGTGAAGCGCCGGCTGT 771

RESULT 9
 US-09-598-982C-42

; Sequence 42, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Hask-Prandscho, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506_104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIORITY FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3

; NAME/KEY: CDS
 ; LOCATION: (7) .. (753)
 ; US-09-598-982C-40

Query Match 97.7%; Score 753.4; DB 1; Length 771;
 Best Local Similarity 98.6%; Pred. No. 0.042; Mismatches 11; Indels 0; Gaps 0;

ORGANISM: Homo sapiens
 FEATURE: NAME/KEY: CDS
 LOCATION: (7)..(753)
 US-09-598-982C-42

Query Match						
	Best Local Similarity	Score	DB 1:	Length	771;	
Matches	760;	Conservative	Pred.	No.	0..042;	Gaps
			Mismatches	11;	Indels	0;
Qy	1	GGCCCTCTCGAGAAAGAATGTCGGGTCAGAGGCCACAGGA- AAGTGCCTCGCTCGAGGCTCCAGGAGCTTGATGACTCTCGGGGCTCCATC	60			
Db	1	GGCCCTCTCGAGAAAGAATGTCGGGTCAGAGGCCACAGGA- AAGTGCCTCGCTCGAGGCTCCAGGAGCTTGATGACTCTCGGGGCTCCATC	60			
Qy	61	CAGGTGAGCTGAGAGTGTACCGGCCATACTGGATGACTCTCGGGGCTCCATC	120			
Db	61	CAGGTGAGCTGAGAGTGTACCGGCCATACTGGATGACTCTCGGGGCTCCATC	120			
Qy	121	CCCCCAGTGGCTGAGCGCGCGCTGTTGGGACGGTCAAGGTCTGGCC	180			
Db	121	CCCCCAGTGGCTGAGCGCGCGCTGTTGGGACGGTCAAGGTCTGGCC	180			
Qy	181	GCCTCAGGTGCAACTCGGGAGGAGCCTCTACTACCGAACAGCAGTGTCCGGTC	240			
Db	181	GCCTCAGGTGCAACTCGGGAGGAGCCTCTACTACCGAACAGCAGTGTCCGGTC	240			
Qy	241	AGCAGATCATCGTGCACCCACAGTCTACACCCCGAGATCGGAGCGACACTCTG	300			
Db	241	AGCAGATCATCGTGCACCCACAGTCTACACCCCGAGATCGGAGCGACACTCTG	300			
Qy	301	CTCGAGCTGGAGGAGCCGGTGTGGGTCAGGCACTGGCTCAGGTCACCTGCCCCT	360			
Db	301	CTCGAGCTGGAGGAGCCGGTGTGGGTCAGGCACTGGCTCAGGTCACCTGCCCCT	360			
Qy	361	GCCTCAGAGACCTCCCGGGGATGGCTGCTGGTCACTGGCTGGGGATGTGGAC	420			
Db	361	GCCTCAGAGACCTCCCGGGGATGGCTGCTGGTCACTGGCTGGGGATGTGGAC	420			
Qy	421	AATGATGAGCAGCTTCCACCGCCATTCTCTGAGAAGCAGGTGAGGTCGCCATATGGAA	480			
Db	421	AATGATGAGCAGCTTCCACCGCCATTCTCTGAGAAGCAGGTGAGGTCGCCATATGGAA	480			
Qy	481	AACCACATTTGAGCCAAATACCACTTGGGCTCACGGGAGGAGCTGGCATC	540			
Db	481	AACCACATTTGAGCCAAATACCACTTGGGCTCACGGGAGGAGCTGGCATC	540			
Qy	541	GTCCGTGAGCAGCTGCTGTCGGGACACCGGGAGGACTCTGGCAGGGACTCC	600			
Db	541	GTCCGTGAGCAGCTGCTGTCGGGACACCGGGAGGACTCTGGCAGGGACTCC	600			
Qy	601	GGGGGCCCTGGTGTGAGGTGATGTCACCTGGCTGTCAGGGGGCTGTGAGCTGG	660			
Db	601	GGGGGCCCTGGTGTGAGGTGATGTCACCTGGCTGTCAGGGGGCTGTGAGCTGG	660			
Qy	661	GCGGAGCTGGCTGAGGTGATGTCACCTGGCTGTCAGGGGGCTGTGAGCTGG	720			
Db	661	GCGGAGCTGGCTGAGGTGATGTCACCTGGCTGTCAGGGGGCTGTGAGCTGG	720			
Qy	721	GACTGGATCACCACATGTCCTCAAAGCCGTGAAAGGGCCCGCTGT	771			
Db	721	GACTGGATCACCACATGTCCTCAAAGCCGTGAAAGGGCCCGCTGT	771			

CURRENT APPLICATION NUMBER: US/09/598,982C
CURRENT FILING DATE: 2000-06-21
PRIORITY APPLICATION NUMBER: 09/079,970
PRIORITY FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 10
LENGTH: 735
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(735)
US-09-598-982C-10

RESULT 10
US-09-598-982C-10
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34306.104

RESULT 1:

```

US-09-598-982C-20/c
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20

Query Match 4.2%; Score 32.4; DB 1; Length 771;
Best Local Similarity 46.8%; Pred. No. 17; Matches 102; Conservative 0; Mismatches 116; Indels 0; Gaps 0;
Title of Invention: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
File Reference: 34506_104
Current Application Number: US/09/598, 982C
Prior Application Number: 09/079, 970
Prior Filing Date: 1998-04-15
Number of Seq ID Nos: 52
Software: PatentIn version 3.3
Seq ID No 20
Length: 771
Type: DNA
Organism: Homo sapiens
Feature: CDS
Name/Key: CDS
Location: (7)..(753)

Qy 49 AAGTGGCCCTGGCAGGTGAGCTGAGACTTCACGGCCCATACTGGATGCCACTTCTGGGG 108
Db 266 AACTGTGGCTGCAGCTGATGATGCCCTGACGGGAGACGAGCTGGTCTGGTAGAGGTG 207
Qy 109 GGCTCCCTCATCACCCCACTGGCTGAGTCACGCGGCCATACTGGATGCCACTTCTGGGG 108
Db 266 ACTGGGGGACGGATGATGCCCTGACGGGAGCTGGTCTGGTAGAGGTG 207
Qy 109 GGCTCCCTCATCACCCCACTGGCTGAGTCACGCGGCCATACTGGATGCCACTTCTGGGG 108
Db 206 TCTCCCGGAACTGACCCATTGACCTTGAGGGAGCCGAGATCTTGACGTGCGGCCACGGC 147
Qy 169 AGGATCTGGCCCTCAGGGTCACTGGGAGCAGCCTACTAACGAGGAC 228
Db 146 GGGGGGTCAGCACCCACTGGGGTGTAGTGGAGGAGCCCGAGAGTCATCCAGAT 87
Qy 229 CTGCTCCGGTCAAGCAGGATCATCGTGACCCACAGTT 266
Db 86 GGGCCGTTGGACTCTCAGGCTCACCTGCCAGGCCACTT 49

RESULT 12
US-09-598-982C-36/c
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-8

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
Title of Invention: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
File Reference: 34506_104
Current Application Number: US/09/598, 982C
Prior Application Number: 09/079, 970
Prior Filing Date: 1998-04-15
Number of Seq ID Nos: 52
Software: PatentIn version 3.3
Seq ID No 8
Length: 771
Type: DNA
Organism: Homo sapiens
Feature: CDS
Name/Key: CDS
Location: (7)..(753)

Qy 1 GGGCCCTCTGGAGAAAAGAATGCGGGGCTCAGGAGGCCCCGGAGRAAGTGCCCTGG 60
Db 113 GAGGCCCGCAGAGTGCACCATGATGGCCGAGCTCTAGCTCAGCTCCAGGCC 54
Qy 61 CAGGTGGAGCTGAGAGTCACGGGCCATACTGGATGCCACTTCTGGGGGCTC 113
Db 53 CACTGGCTCTGGGGCTCTGACCCGGAGATTCTTCTCGAGGGGCC 1

RESULT 14
US-09-598-982C-22/c
; Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-36

Query Match 4.2%; Score 32.4; DB 1; Length 771;
Best Local Similarity 46.8%; Pred. No. 17; Matches 102; Conservative 0; Mismatches 116; Indels 0; Gaps 0;
Title of Invention: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
File Reference: 34506_104
Current Application Number: US/09/598, 982C
Prior Application Number: 09/079, 970
Prior Filing Date: 1998-04-15
Number of Seq ID Nos: 52
Software: PatentIn version 3.3
Seq ID No 36
Length: 771
Type: DNA
Organism: Homo sapiens
Feature: CDS
Name/Key: CDS
Location: (7)..(753)

Qy 49 AAGTGGCCCTGGCAGGTGAGCTGAGACTTCACGGCCCATACTGGATGCCACTTCTGGGG 108
Db 266 AACTGTGGCTGCAGCTGATGATGCCCTGACGGGAGACGAGCTGGTCTGGTAGAGGTG 207
Qy 109 GGCTCCCTCATCACCCCACTGGCTGAGTCACGCGGCCATACTGGATGCCACTTCTGGGG 108
Db 205 TGCTCCCGAGTRGACCTGTGAGGGGGCGAGATCTTGACGTCGGTCCACGGACGCC 147
Qy 169 AAGGATCTGGCCCTGGGTCACGGGGAGCAGCAGGAGCAGCAGCTACTACCGAGGAG 228
Db 145 GGGGGGTCAGCACCCACTGGGGTGTAGTGGAGGAGCCCGAGAGTGAATGCACTG 87
Qy 229 CTGCTCCGGTCAAGCAGGATCATCGTGACCCACAGTT 266
Db 85 GGGCCGTTGGACTCTCAGGCTCACCTGCCAGGCCACTT 49

```

US-09-598-982C-26

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; MisMatches 0; Indels 0; Gaps 0;

Matched Sequences:

```

Qy  1 GAGCCCTCGAGAAAGAATCGTGGGGTCAGGAGGCCAGGACAGTGCCCTCG 60
Db  113 GAGCCCTCGAGAGTCATCCAGTATGGCCGAGACTCAGTCACCTGCCAGGC 54
Qy  61 CAGGTGAGCTGAGGTCCACGGCCATACTGGATGACTCTGGGGCTC 113
Db  53 CACTTGCTCTGGCTCTGACCCGACCATCTTCTCGAGGGGCC 1

```

RESULT 15

US-09-598-982C-24/c

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; MisMatches 0; Indels 0; Gaps 0;

Matched Sequences:

```

Qy  1 GAGCCCTCGAGAAAGAATCGTGGGGTCAGGAGGCCAGGACAGTGCCCTCG 60
Db  113 GAGCCCTCGAGAGTCATCCAGTATGGCCGAGACTCAGTCACCTGCCAGGC 54
Qy  61 CAGGTGAGCTGAGGTCCACGGCCATACTGGATGACTCTGGGGCTC 113
Db  53 CACTTGCTCTGGCTCTGACCCGACCATCTTCTCGAGGGGCC 1

```

GENERAL INFORMATION:

APPLICANT: Niles, Andrew

APPLICANT: Haak-Frendscho, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME

FILE REFERENCE: 34506-104

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 24

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (7) .. (753)

US-09-598-982C-24

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; MisMatches 0; Indels 0; Gaps 0;

Matched Sequences:

```

Qy  1 GAGCCCTCGAGAAAGAATCGTGGGGTCAGGAGGCCAGGACAGTGCCCTCG 60
Db  113 GAGCCCTCGAGAGTCATCCAGTATGGCCGAGACTCAGTCACCTGCCAGGC 54

```

RESULT 17

US-09-598-982C-38/c

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; MisMatches 0; Indels 0; Gaps 0;

Matched Sequences:

```

Qy  1 GAGCCCTCGAGAAAGAATCGTGGGGTCAGGAGGCCAGGACAGTGCCCTCG 60
Db  113 GAGCCCTCGAGAGTCATCCAGTATGGCCGAGACTCAGTCACCTGCCAGGC 54

```

GENERAL INFORMATION:

APPLICANT: Niles, Andrew

APPLICANT: Haak-Frendscho, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME

FILE REFERENCE: 34506-104

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 38

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (7) .. (753)

US-09-598-982C-38

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; MisMatches 0; Indels 0; Gaps 0;

Matched Sequences:

```

Qy  1 GAGCCCTCGAGAAAGAATCGTGGGGTCAGGAGGCCAGGACAGTGCCCTCG 60
Db  113 GAGCCCTCGAGAGTCATCCAGTATGGCCGAGACTCAGTCACCTGCCAGGC 54

```

RESULT 18

US-09-598-982C-40/c

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; MisMatches 0; Indels 0; Gaps 0;

Matched Sequences:

```

Qy  1 GAGCCCTCGAGAAAGAATCGTGGGGTCAGGAGGCCAGGACAGTGCCCTCG 60
Db  113 GAGCCCTCGAGAGTCATCCAGTATGGCCGAGACTCAGTCACCTGCCAGGC 54

```

GENERAL INFORMATION:

APPLICANT: Niles, Andrew

APPLICANT: Haak-Frendscho, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME

FILE REFERENCE: 34506-104

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 40

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (7) .. (753)

US-09-598-982C-26

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; MisMatches 0; Indels 0; Gaps 0;

Matched Sequences:

```

Qy  1 GAGCCCTCGAGAAAGAATCGTGGGGTCAGGAGGCCAGGACAGTGCCCTCG 60
Db  113 GAGCCCTCGAGAGTCATCCAGTATGGCCGAGACTCAGTCACCTGCCAGGC 54

```

GENERAL INFORMATION:

APPLICANT: Niles, Andrew

APPLICANT: Haak-Frendscho, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME

FILE REFERENCE: 34506-104

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-40

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Qy 1 GGGCCCTCGAGAAAGATGTCGGGGTGAGGAGGCCAGAGCACTGGCTGG 60
Db 113 GAGCCCGAGAGTCATCGATGCGGTGACTCTAGGTTCTGAGGTCAC 54

Qy 61 CGGTGAGCCAGAGAGTCACGCCATACTGAGTCACTGAGTCAGTCTGGGGGCTC 113
Db 53 CACTGCTCTGGGCTCTGACCCCCGAGATCTTCTCGAGGGGCC 1

RESULT 19
US-09-598-982C-42/c

; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendrich, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-42

Query Match 3.6%; Score 27.6; DB 1; Length 735;
Best Local Similarity 45.4%; Pred. No. 18;
Matches 99; Conservative 0; Mismatches 119; Indels 0; Gaps 0;

Qy 4 9 AAGTGCCTGGCAGGTGGCTGAGTCACGCCCTACTAGATGACTTCTGGGG 108
Db 248 AACCTGGGGCAGATGATCTCTGAGCTGGCTGAGTCAGTGGTC 189

Qy 109 GGCTGCCTTCACCCCGGCTGGTGGTGGCTGACCCCGGGGGGGGGGGGG 168
Db 188 TGCTCCGGAGTTGACCCCTGAGGGGGGGGGGGGGGGGGGGGGGGGGGG 129

Qy 169 AAGGATCTGCCGCTCTGGGTCACCTGGGGAGGAGGAGGAGGAGGAGG 228
Db 128 GCTGGGGTCAAGCACCCACTGGGGGGGGGGGGGGGGGGGGGGGGGG 69

Qy 229 CTGCTGCCGCTCAGGAGTCATGTCGCCCCAGTT 266
Db 68 GGGCGGGACTCTCAGGTCACCTGGCGGGCACTT 31

Search completed: August 26, 2005, 12:32:28
Job time : 3.81314 Secs

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OM nucleic - nucleic search, using bw model
Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds
Title: US-09-598-982C-22
Perfect score: 771
Sequence: 1. gggccctcgagaaagaatgttcggggtagggggcccccaggaaatggcctgg 60
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5
Searched: 10 seqs, 7674 residues
Total number of hits satisfying chosen parameters: 20
Minimum DB seq length: 0
Maximum DB seq length: inf
Post-processing: Minimum Match 0\$
Maximum Match 100\$
Listing first 200 summaries
Database : US09598982C_rev.seq:
Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,

RESULT 20
US-09-598-982C-10/C
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendrich, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	771	100.0	771 1	US-09-598-982C-22 Sequence 22, Appl
2	769.9	99.8	771 1	US-09-598-982C-38 Sequence 38, Appl
3	767.8	99.6	771 1	US-09-598-982C-8 Sequence 8, Appl
4	764.9	98.8	771 1	US-09-598-982C-20 Sequence 20, Appl
5	759.8	98.5	771 1	US-09-598-982C-36 Sequence 36, Appl
6	758.2	98.3	771 1	US-09-598-982C-24 Sequence 24, Appl
7	758.2	98.3	771 1	US-09-598-982C-26 Sequence 26, Appl
8	756.6	98.1	771 1	US-09-598-982C-40 Sequence 40, Appl
9	756.6	98.1	771 1	US-09-598-982C-42 Sequence 42, Appl
10	731.8	94.9	735 1	US-09-598-982C-10 Sequence 10, Appl
11	28.2	3.7	771 1	US-09-598-982C-8 Sequence 8, Appl
12	28.2	3.7	771 1	US-09-598-982C-20 Sequence 20, Appl
13	28.2	3.7	771 1	US-09-598-982C-22 Sequence 22, Appl
14	28.2	3.7	771 1	US-09-598-982C-24 Sequence 24, Appl
15	28.2	3.7	771 1	US-09-598-982C-26 Sequence 26, Appl
16	28.2	3.7	771 1	US-09-598-982C-36 Sequence 36, Appl
17	28.2	3.7	771 1	US-09-598-982C-38 Sequence 38, Appl
18	28.2	3.7	771 1	US-09-598-982C-40 Sequence 40, Appl
19	28.2	3.7	735 1	US-09-598-982C-10 Sequence 10, Appl

ALIGNMENTS

RESULT	1	US-09-598-982C-22	US-09-598-982C	SEQUENCE	GENERAL INFORMATION:
APPLICANT:	Niles, Andrew				
APPLICANT:	Haa-k-Freudscho, Mary				
TITLE OF INVENTION:	RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, FILE REFERENCE: 34506_104				
CURRENT APPLICATION NUMBER:	US-09/598, 982C				
CURRENT FILING DATE:	2000-06-21				
PRIOR APPLICATION NUMBER:	09/079, 970				
PRIOR FILING DATE:	1998-04-15				
NUMBER OF SEQ ID NOS:	52				
SOFTWARE:	PatentIn version 3.3				
SEQ ID NO:	22				
LENGTH:	771				
TYPE:	DNA				
ORGANISM:	Homo sapiens				
FEATURE:					
NAME/KEY:	CDS				
LOCATION:	(7)..(753)				
LOCATION:	US-09-598-982C-22				
Query Match	100.0%	Score 771; DB 1; Length 771;			
Best Local Similarity	100.0%	Pred. No. 0.037; Mismatches 0; Indels 0; Gaps 0;			
Matches	771;	Conservative			
Qy	1	GAGGCCCTGAGAAAGATCTGGGGGTCAAGAGCCCGGCACTGGGGCTCCCTCATC	60		
Db	1	GAGGCCCTGAGAAAGATCTGGGGGTCAAGAGCCCGGCACTGGGGCTCCCTCATC	60		
Qy	61	CGGTGAGCTTGTAGAGTCACGCCCTACTGGATGCTTGCGGGGCTCCCTCATC	120		
Db	61	CGGTGAGCTTGTAGAGTCACGCCCTACTGGATGCTTGCGGGGCTCCCTCATC	120		
Qy	121	CGGCCCTGAGAAAGATCTGGGGGTCAAGAGCCCGGCACTGGGGCTCCCTCATC	180		
Db	121	CGGCCCTGAGAAAGATCTGGGGGTCAAGAGCCCGGCACTGGGGCTCCCTCATC	180		

RESULT	2	US-09-598-982C-38	US-09-598-982C-38	SEQUENCE	GENERAL INFORMATION:
APPLICANT:	Niles, Andrew				
APPLICANT:	Haa-k-Freudscho, Mary				
TITLE OF INVENTION:	RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, FILE REFERENCE: 34506_104				
CURRENT APPLICATION NUMBER:	US-09/598, 982C				
CURRENT FILING DATE:	2000-06-21				
PRIOR APPLICATION NUMBER:	09/079, 970				
PRIOR FILING DATE:	1998-04-15				
NUMBER OF SEQ ID NOS:	52				
SOFTWARE:	PatentIn version 3.3				
SEQ ID NO:	38				
LENGTH:	771				
TYPE:	DNA				
ORGANISM:	Homo sapiens				
FEATURE:					
NAME/KEY:	CDS				
LOCATION:	(7)..(753)				
LOCATION:	US-09-598-982C-38				
Query Match	99.8%	Score 769.4; DB 1; Length 771;			
Best Local Similarity	99.9%	Pred. No. 0.037; Mismatches 1; Indels 0; Gaps 0;			
Matches	770;	Conservative			
Qy	1	GAGGCCCTGAGAAAGATCTGGGGGTCAAGAGCCCGGCACTGGGGCTCCCTCATC	60		
Db	1	GAGGCCCTGAGAAAGATCTGGGGGTCAAGAGCCCGGCACTGGGGCTCCCTCATC	60		

US-09-598-982C-B


```

RESULT 6
US-09-598-982C-24
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-24

Query Match 98.3%; Score 758.2; DB 1; Length 771;
Best Local Similarity 99.0%; Pred. No. 0.041; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 763; Conservative 0; Mi 0; Bmatches 8; IndelB 0; GapsB 0;

Qy 1 GGGCCCTCGAGAAAGAATGTCGCCGGGTCAAGGGGCCCCAGGAGCAATGGCCCTGG 60
Db 1 GGGCCCTCGAGAAAGAATGTCGCCGGGTCAAGGGGCCCCAGGAGCAATGGCCCTGG 60

Qy 61 CAGGTGAGCTGAGGGTCAACGGGCAACTGGATGCACTCTGGGGGCTCCATC 120
Db 61 CAGGTGAGCTGAGGGTCAACGGGCAACTGGATGCACTCTGGGGGCTCCATC 120

Qy 121 CACCCCAAGGGGGCTGACGGCACGCGACTGCGTGGGACGGAGCTCAAGGATCTGGC 180
Db 121 CACCCCAAGGGGGCTGACGGCACGCGACTGCGTGGGACGGAGCTCAAGGATCTGGC 180

Qy 181 GCCCCTCAGGGTGCAACTGCGGGAGGAGCACCTCTACCGGACAGCTGCTGGGGTC 240
Db 181 GCCCCTCAGGGTGCAACTGCGGGAGGAGCACCTCTACCGGACAGCTGCTGGGGTC 240

Qy 241 AGCAGGATCATCGTGACCCACAGTCTAACCGCCAGATGGGGGAGGGGGATCTGGC 300
Db 241 AGCAGGATCATCGTGACCCACAGTCTAACCGCCAGATGGGGGAGGGGGATCTGGC 300

Qy 301 CTGGAGCTGAGGAGCCGGAGGGTCAAGCCAGTCTGAGCCAGTCTGAGCCCT 360
Db 301 CTGGAGCTGAGGAGCCGGAGGGTCAAGCCAGTCTGAGCCCT 360

Qy 361 GCCTTAGAGACCTTCCCCGGGGATGCCGCTGGTCACTGGTGGGGATCTGGAC 420
Db 361 GCCTTAGAGACCTTCCCCGGGGATGCCGCTGGTCACTGGTGGGGATCTGGAC 420

Qy 421 AATGATGAGGCCCTGCCAGCCATTCTCTGAAGCAGGTGAAG367CCCTATAATGGAA 480
Db 421 AATGATGAGGCCCTGCCAGCCATTCTCTGAAGCAGGTGAAG367CCCTATAATGGAA 480

Qy 481 AACCCATTTGGAGGCAAATACACCTGGGGTACAGGGAGGACTCTCCAGGCGATC 540
Db 481 AACCCATTTGGAGGCAAATACACCTGGGGTACAGGGAGGACTCTCCAGGCGATC 540

Qy 541 GTCCCGTGAACATCTGTGCGGGAAACCCGGGGAGGACTCTCCAGGCGATC 600
Db 541 GTCCCGTGAACATCTGTGCGGGAAACCCGGGGAGGACTCTCCAGGCGATC 600

Qy 541 GTCCCGTGAACATCTGTGCGGGAAACCCGGGGAGGACTCTCCAGGCGATC 600
Db 541 GTCCCGTGAACATCTGTGCGGGAAACCCGGGGAGGACTCTCCAGGCGATC 600

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QY 481 AACACATTTGAGCGAAATACTACCACTTGGCCCTACACGGAGAACCTCCATC 540
Db 481 ACCACATTTGAGCGAAATACTACCACTTGGCCCTACACGGAGAACCTCCATC 540
QY 541 GTCGTGAGAGATGCTGCTGGAGAACACCGAGGGACTCATGCCAGGCGACTCC 600
Db 541 GTCGTGAGAGATGCTGCTGGAGAACACCGAGGGACTCATGCCAGGCGACTCC 600
QY 601 GAGGGGCCCTGGTGCGAAGSTGAATGGCACTGGCGACTCATGCCAGGCGACTCC 660
Db 601 GAGGGGCCCTGGTGCGAAGSTGAATGGCACTGGCGACTCATGCCAGGCGACTCC 660
QY 601 GCGGACACTACTGCGCAAGCTGAAGTGCACCTGCGCGACGCGCTACCTGG 660
Db 601 GCGGACACTACTGCGCAAGCTGAAGTGCACCTGCGCGACGCGCTACCTGG 660
QY 661 GCGGAGGGCTGCCCCACCCGACCGCTGCATCACCCGTCACCTACTTG 720
Db 661 GCGGAGGGCTGCCCCACCCGACCGCTGCATCACCCGTCACCTACTTG 720
QY 721 GACTGGATCCACCACTAATGTCCTCAAAGCGCTGAGACGGCGCGCTGT 771
Db 721 GACTGGATCCACCACTAATGTCCTCAAAGCGCTGAGACGGCGCGCTGT 771

RESULT 8
US-09-598-982C-40.
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Freundsoho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598_982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079_970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-40

Query Match 98.1%; Score 756.6; DB 1; Length 771;
Best Local Similarity 98.8%; Pred. No. 0.042; 0; Mismatches 9; Indels 0; Gaps 0;

QY 1 GGGCCCCCTGAGAAAGATCTCGGGGGTCAAGGAGCCCAGGGCAAGTGCCCTGG 60
Db 1 GGGCCCCCTGAGAAAGATCTCGGGGGTCAAGGAGCCCAGGGCAAGTGCCCTGG 60
QY 61 CAGGTGAGCTGAGAGTCACGGCCATACTGGACTCTGCGGGGCTCCATC 120
Db 61 CAGGTGAGCTGAGAGTCACGGCCATACTGGACTCTGCGGGGCTCCATC 120
QY 121 CACCCCTAGTGTGCGACCGAGGACTCTACTACGAGGACGAGCTCAAGATCGCC 180
Db 121 CACCCCTAGTGTGCGACCGAGGACTCTACTACGAGGACGAGCTCAAGATCGCC 180
QY 181 GCCCTCAGGGCAACTGGGGAGGACCTACTACGAGGACGAGCTCAAGATCGCC 240
Db 181 GCCCTCAGGGCAACTGGGGAGGACCTACTACGAGGACGAGCTCAAGATCGCC 240
QY 241 AGCGAGATCATCGTCACCCACAGTCTCACCGCCAGATCGCCCTG 300
Db 241 AGCGAGATCATCGTCACCCACAGTCTCACCGCCAGATCGCCCTG 300
QY 301 CTGGAGCTGAGGAGGCGTGAAGGTCTTCAGGACCTCAACGGCACCTGCGCTG 360

Db 301 CTGGAGCTGAGGAGGCGTGAAGGTCTTCAGGACCTGACAGGGTCAACCTTCCTC 360
QY 361 GCCTCGAGAACCTTCCCGGGATGCGCTGCTGGGACTGCTGGGGGATGTCGAC 420
Db 361 GCCTCGAGAACCTTCCCGGGATGCGCTGCTGGGACTGCTGGGGGATGTCGAC 420
QY 421 AATGATGAGGGCTCCACGCCATTCTCTGAGACAGTGAAGGTCCCATATGGA 480
Db 421 AATGATGAGGGCTCCACGCCATTCTCTGAGACAGTGAAGGTCCCATATGGA 480
QY 481 AACACATTTGAGCGAAATACTACCACTTGGCCCTACACGGAGAACCTCCATC 540
Db 481 AACACATTTGAGCGAAATACTACCACTTGGCCCTACACGGAGAACCTCCATC 540
QY 541 GTCGTGAGAGATGCTGCTGGAGAACACCGAGGGACTCATGCCAGGCGACTCC 600
Db 541 GTCGTGAGAGATGCTGCTGGAGAACACCGAGGGACTCATGCCAGGCGACTCC 600
QY 601 GAGGGGCCCTGGTGCGAAGSTGAATGGCACTGGCGACTCATGCCAGGCGACTCC 660
Db 601 GAGGGGCCCTGGTGCGAAGSTGAATGGCACTGGCGACTCATGCCAGGCGACTCC 660
QY 661 GCGGAGGGCTGCCCCACCCGACCGCTGCATCACCCGTCACCTACTTG 720
Db 661 GCGGAGGGCTGCCCCACCCGACCGCTGCATCACCCGTCACCTACTTG 720
QY 721 GACTGGATCCACCACTAATGTCCTCAAAGCGCTGAGACGGCGCGCTGT 771
Db 721 GACTGGATCCACCACTAATGTCCTCAAAGCGCTGAGACGGCGCGCTGT 771

RESULT 9
US-09-598-982C-42.
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Freundsoho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598_982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079_970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-42

Query Match 98.1%; Score 756.6; DB 1; Length 771;
Best Local Similarity 98.8%; Pred. No. 0.042; 0; Mismatches 9; Indels 0; Gaps 0;

QY 1 GGGCCCCCTGAGAAAGATCTCGGGGGTCAAGGAGCCCAGGGCAAGTGCCCTGG 60
Db 1 GGGCCCCCTGAGAAAGATCTCGGGGGTCAAGGAGCCCAGGGCAAGTGCCCTGG 60
QY 61 CAGGTGAGCTGAGAGTCACGGCCATACTGGACTCTGCGGGGCTCCATC 120
Db 61 CAGGTGAGCTGAGAGTCACGGCCATACTGGACTCTGCGGGGCTCCATC 120
QY 121 CACCCCTAGTGTGCGACCGAGGACTCTACTACGAGGACGAGCTCAAGATCGCC 180
Db 121 CACCCCTAGTGTGCGACCGAGGACTCTACTACGAGGACGAGCTCAAGATCGCC 180
QY 181 GCCCTCAGGGCAACTGGGGAGGACCTACTACGAGGACGAGCTCAAGATCGCC 240
Db 181 GCCCTCAGGGCAACTGGGGAGGACCTACTACGAGGACGAGCTCAAGATCGCC 240
QY 241 AGCGAGATCATCGTCACCCACAGTCTCACCGCCAGATCGCCCTG 300
Db 241 AGCGAGATCATCGTCACCCACAGTCTCACCGCCAGATCGCCCTG 300
QY 301 CTGGAGCTGAGGAGGCGTGAAGGTCTTCAGGACCTCAACGGCACCTGCGCTG 360

Db 301 CTGGAGCTGAGGAGGCGTGAAGGTCTTCAGGACCTGACAGGGTCAACCTTCCTC 360
QY 361 GCCTCGAGAACCTTCCCGGGATGCGCTGCTGGGACTGCTGGGGGATGTCGAC 420
Db 361 GCCTCGAGAACCTTCCCGGGATGCGCTGCTGGGACTGCTGGGGGATGTCGAC 420
QY 421 AATGATGAGGGCTCCACGCCATTCTCTGAGACAGTGAAGGTCCCATATGGA 480
Db 421 AATGATGAGGGCTCCACGCCATTCTCTGAGACAGTGAAGGTCCCATATGGA 480
QY 481 AACACATTTGAGCGAAATACTACCACTTGGCCCTACACGGAGAACCTCCATC 540
Db 481 AACACATTTGAGCGAAATACTACCACTTGGCCCTACACGGAGAACCTCCATC 540
QY 541 GTCGTGAGAGATGCTGCTGGAGAACACCGAGGGACTCATGCCAGGCGACTCC 600
Db 541 GTCGTGAGAGATGCTGCTGGAGAACACCGAGGGACTCATGCCAGGCGACTCC 600
QY 601 GAGGGGCCCTGGTGCGAAGSTGAATGGCACTGGCGACTCATGCCAGGCGACTCC 660
Db 601 GAGGGGCCCTGGTGCGAAGSTGAATGGCACTGGCGACTCATGCCAGGCGACTCC 660
QY 661 GCGGAGGGCTGCCCCACCCGACCGCTGCATCACCCGTCACCTACTTG 720
Db 661 GCGGAGGGCTGCCCCACCCGACCGCTGCATCACCCGTCACCTACTTG 720
QY 721 GACTGGATCCACCACTAATGTCCTCAAAGCGCTGAGACGGCGCGCTGT 771
Db 721 GACTGGATCCACCACTAATGTCCTCAAAGCGCTGAGACGGCGCGCTGT 771


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Query Match      3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 53; Indels 0; Gaps 0;
Matches 60; Conservative 0; MisMatches 53; Indels 0; Gaps 0;

Qy      1 GGGCCCTCGAGAAAGATCGTGGGGTCAGGAGCCCCAGAGCAACTGGCCTGG 60
Db      113 GGGCCCTCGAGAAAGATCGTGGGGTCAGGAGCCCCAGAGCAACTGGCCTGG 54
Qy      61 CAGGTAGCCCTGAGASTCCACGCCCATACTGATGCACTTCAGGAGCTTCAGGAGGCC 113
Db      53 CACTTGCTCTGCTGCTGAGGATCTTCTGAGGGGCC 1

RESULT 12
US-09-598-982C-20/c
; Sequence 20, Application US/09598982c
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506..04
; CURRENT APPLICATION NUMBER: US/09/598, 982c
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20

Query Match      3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 53; Indels 0; Gaps 0;
Matches 60; Conservative 0; MisMatches 53; Indels 0; Gaps 0;

Qy      1 GGGCCCTCGAGAAAGATCGTGGGGTCAGGAGCCCCAGAGCAACTGGCCTGG 60
Db      113 GGGCCCTCGAGAAAGATCGTGGGGTCAGGAGCCCCAGAGCAACTGGCCTGG 54
Qy      61 CAGGTAGCCCTGAGASTCCACGCCCATACTGATGCACTTCAGGAGCTTCAGGAGGCC 113
Db      53 CACTTGCTCTGCTGCTGAGGATCTTCTGAGGGGCC 1

RESULT 13
US-09-598-982C-22/c
; Sequence 22, Application US/09598982c
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506..04
; CURRENT APPLICATION NUMBER: US/09/598, 982c
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

; US-09-598-982C-22/c
; Sequence 22, Application US/09598982c
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506..04
; CURRENT APPLICATION NUMBER: US/09/598, 982c
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

; RESULT 14
; US-09-598-982C-24/c
; Sequence 24, Application US/09598982c
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506..14
; CURRENT APPLICATION NUMBER: US/09/598, 982c
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-24

Query Match      3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 53; Indels 0; Gaps 0;
Matches 60; Conservative 0; MisMatches 53; Indels 0; Gaps 0;

Qy      1 GGGCCCTCGAGAAAGATCGTGGGGTCAGGAGCCCCAGAGCAACTGGCCTGG 60
Db      113 GGGCCCTCGAGAAAGATCGTGGGGTCAGGAGCCCCAGAGCAACTGGCCTGG 54
Qy      61 CAGGTAGCCCTGAGASTCCACGCCCATACTGATGCACTTCAGGAGCTTCAGGAGGCC 113
Db      53 CACTTGCTCTGCTGCTGAGGATCTTCTGAGGGGCC 1

RESULT 15
US-09-598-982C-26/c
; Sequence 26, Application US/09598982c
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506..04
; CURRENT APPLICATION NUMBER: US/09/598, 982c
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-26

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
Qy 1 GGCGCCCTCGAGAAAAGAATGTCGGGTGAGGGAGCCCCAGAGCAAGTGCCTCG 60
Db 113 GAGCCCCCGAGAGAGCATCGATGAGCTCGAGTGGCCGTTGACTCTACGTGCCAGGGC 54
Qy 61 CAGGTGAGCTAGAGTCCAGGGCCATACTCGATGCACTTCGGGGGCTC 113
Db 53 CACTGCTCTGGGAGCTCTTGACCCGAGGATCTTCTCAAGGGGCC 1

RESULT 16
US-09-598-982C-36/C
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
Qy 1 GGCGCCCTCGAGAAAAGAATGTCGGGTGAGGGAGCCCCAGAGCAAGTGCCTCG 60
Db 113 GAGCCCCCGAGAGAGCATCGATGAGCTCGAGTGGCCGTTGACTCTACGTGCCAGGGC 54
Qy 61 CAGGTGAGCTAGAGTCCAGGGCCATACTCGATGCACTTCGGGGGCTC 113
Db 53 CACTGCTCTGGGAGCTCTTGACCCGAGGATCTTCTCAAGGGGCC 1

RESULT 17
US-09-598-982C-38/C
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52

RESULT 18
US-09-598-982C-40/C
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
Qy 1 GGCGCCCTCGAGAAAAGAATGTCGGGTGAGGGAGCCCCAGAGCAAGTGCCTCG 60
Db 113 GAGCCCCCGAGAGAGCATCGATGAGCTCGAGTGGCCGTTGACTCTACGTGCCAGGGC 54
Qy 61 CAGGTGAGCTAGAGTCCAGGGCCATACTCGATGCACTTCGGGGGCTC 113
Db 53 CACTGCTCTGGGAGCTCTTGACCCGAGGATCTTCTCAAGGGGCC 1

RESULT 19
US-09-598-982C-42/C
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52

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; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 42
 ; LENGTH: 771
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (7)..(753)
 ; US-09-598-982C-42

Query Match 3.7%; Score 28.2; DB 1; Length 771;
 Best Local Similarity 53.1%; Ped. No. 17; Mismatches 53; Indels 0; Gaps 0;
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Qy 1 GGGCCCCCTCGAGAAAGATCGTGGGGTCAGGAGGCCAGGAACTGGCCCTGG 60
 Db 113 GAGCCCCCGAGAAGTGCATCGAGTATGGCGTGACTCTAGGCACTGCCAGGC 54
 Qy 61 CAGGTGACCTTAGAGTCACCCGCACTATCGATGACTTGCGGGGTC 113
 Db 53 CACTTGCTCTGGGGCTCTACCCCGAGGATTCCTTCGAGGGGCC 1

RESULT 20

US-09-598-982C-10/c

Sequence 10, Application US/09598982C

GENERAL INFORMATION:

APPLICANT: Niles, Andrew

APPLICANT: Haak-Frendscho, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

FILE REFERENCE: 34506..104

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 10

LENGTH: 735

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:
NAME/KEY: CDS
LOCATION: (11)..(735)

US-09-598-982C-10

Query Match 3.1%; Score 24.2; DB 1; Length 735;
Best Local Similarity 52.8%; Ped. No. 18; Mismatches 78; Indels 6; Gaps 2;
Matches 94; Conservative 0; Mismatches 78; Indels 6; Gaps 2;Qy 297 CTCTGCTGAGCTGGAGGCCCTGAAGGTCTCAGGCCACGGTACCCGCC 356
Db 442 CTCTGCTGAGGAATACTGGAGGCCCTCATATGCCACA---TGGCCAGC 386Qy 357 CCTGCTCAGGAGCTTCCCCGGAGATGGCTGGCTGGGACTGGCTGGGCA--- 413
Db 385 CAGTGACCCAGCACGGCATCCCGGGGAACTCTCTGAGGAGGGCGG 326Qy 414 TGTGGACATGATGAGGCCTCCACCCATTCTCTGAGGAGGTCCC 471
Db 325 TGTGGACCTGGCTGGAGACCTTACCGCTCTCCAGCTGGAGGTC 268

ON nucleic - nucleic search, using sw model

Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds

4.206 Million cell updates/sec
(without alignments)

US-09-598-982C-24

Title: Perfect score: 771

Sequence: 1 gggccccctcgagaaat.....cgtgaagcggccgcgtcgt 771

Searched: 10 seqs, 7674 residues

Total number of hits satisfying chosen parameters: 20

Minimum DB seq length: 0

Maximum DB seq length: inf

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 200 summaries

Database : US09598982C_rev.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description	
1	771	100	0	771	US-09-598-982C-24	
2	769.4	99.8	771	1	US-09-598-982C-40	
3	766.2	99.4	771	1	US-09-598-982C-26	
4	764.6	99.2	771	1	US-09-598-982C-42	
5	761.4	98.8	771	1	US-09-598-982C-8	
6	758.2	98.3	771	1	US-09-598-982C-22	
7	756.6	98.1	771	1	US-09-598-982C-38	
8	755	97.9	771	1	US-09-598-982C-20	
9	753.4	97.7	771	1	US-09-598-982C-36	
10	725.4	94.1	735	1	US-09-598-982C-10	
c	11	28.2	3.7	771	1	US-09-598-982C-8
c	12	28.2	3.7	771	1	US-09-598-982C-20
c	13	28.2	3.7	771	1	US-09-598-982C-22
c	14	28.2	3.7	771	1	US-09-598-982C-24
c	15	28.2	3.7	771	1	US-09-598-982C-26
c	16	28.2	3.7	771	1	US-09-598-982C-36
c	17	28.2	3.7	771	1	US-09-598-982C-38
c	18	28.2	3.7	771	1	US-09-598-982C-40
c	19	28.2	3.7	771	1	US-09-598-982C-42
c	20	27.2	3.5	735	1	US-09-598-982C-10

ALIGNMENTS

Search completed: August 26, 2005, 12:32:29
 Job time : 3.81314 secB

PRIOR APPLICATION NUMBER: 09/0795, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: Patentin version 3.3
SEQ ID NO: 24
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: CDS
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-24

Sequence 40, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendcho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506-104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SEQUENCE COUNT: 3

; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
US-09-598-982C-40

RESULT 2

RESULT 3
US-09-598-982C-26
; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Freindoch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506..104
; CURRENT APPLICATION NUMBER: US/09/598 982C
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-26

Query Match 99.4%; Score 766.2; DB 1; Length 771;
Best Local Similarity 99.6%; Pred. No. 0; 038; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 768; Conservative 0; Software: PatentIn version 3.3

Qy 1 GAGGCCCTCTGAGAAAGATGCGGGAGGTAGAGGCCCCAGGAAAGTGGCTCCATC 60
Db 1 GGGCCCTCTGAGAAAGATGCGGGAGGTAGAGGCCCCAGGAAAGTGGCTCCATC 60

Qy 61 CAGSGTGACCTGAGAGTCACGCCAACATGCACTTCTGCGGGCTCCATC 120
Db 61 CAGGTGAGCTGAGAGTCACGCCAACATGCACTTCTGCGGGCTCCATC 120

Qy 121 CACCCCCACTGTTGCTGACCCGAGCTGCTGGGGACCTGAGAGGCCCCAGGAAAGTGGCTCCATC 180
Db 121 CACCCCCACTGTTGCTGACCCGAGCTGCTGGGGACCTGAGAGGCCCCAGGAAAGTGGCTCCATC 180

Qy 181 GCCCTCAGGGTGCACCTGGGGAGCACCTTAACCAAGGACCTGAGGGCTCCATC 240
Db 181 GCCCTCAGGGTGCACCTGGGGAGCACCTTAACCAAGGACCTGAGGGCTCCATC 240

Qy 241 AGGGGATCATGTTGACCCACAGTTCTACACGGCCGAGTGGCTCCATC 300
Db 241 AGGGGATCATGTTGACCCACAGTTCTACACGGCCGAGTGGCTCCATC 300

Qy 301 CTGGAGCTGGAGGAGCCGCTGAGGTCTCAGGCTCACGGCACCTGGCCCT 360
Db 301 CTGGAGCTGGAGGAGCCGCTGAGGTCTCAGGCTCACGGCACCTGGCCCT 360

Qy 361 GCCTCAGGACCTTCCCACCGGAAATTCTGAGAGGTAGGCTCAATGGA 420
Db 361 GCCTCAGGACCTTCCCACCGGAAATTCTGAGAGGTAGGCTCAATGGA 420

Qy 421 ATGATGAGGCTTCCCACCGGAAATTCTGAGAGGTAGGCTCAATGGA 480
Db 421 ATGATGAGGCTTCCCACCGGAAATTCTGAGAGGTAGGCTCAATGGA 480

Qy 481 ACCACATTTGAGCAAATACACCTGGGCTACAGGGAGGACCTGGAC 540
Db 481 ACCACATTTGAGCAAATACACCTGGGCTACAGGGAGGACCTGGAC 540

Qy 541 GTCCGTGACGACATCTGAGGCTTCCCACCGGAAACCCGGAGGATCAAGGACGCC 600
Db 541 GTCCGTGACGACATCTGAGGCTTCCCACCGGAAACCCGGAGGATCAAGGACGCC 600

RESULT 4
US-09-598-982C-42
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Freindoch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506..104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-42

Query Match 99.2%; Score 764.6; DB 1; Length 771;
Best Local Similarity 99.5%; Pred. No. 0; 039; 0; Mismatches 4; Indels 0; Gaps 0;
Matches 767; Conservative 0; Software: PatentIn version 3.3

Qy 1 GAGGCCCTCTGAGAAAGATGCGGGAGGTAGAGGCCCCAGGAAAGTGGCTCCATC 60
Db 1 GGGCCCTCTGAGAAAGATGCGGGAGGTAGAGGCCCCAGGAAAGTGGCTCCATC 60

Qy 61 CAGGTGAGCTGAGAGTCACGCCAACATGCACTTCTGCGGGCTCCATC 120
Db 61 CAGGTGAGCTGAGAGTCACGCCAACATGCACTTCTGCGGGCTCCATC 120

Qy 121 CACCCCCACTGTTGCTGACCCGAGCTGCTGGGGACCTGAGAGGCCCCAGGAAAGTGGCTCCATC 180
Db 121 CACCCCCACTGTTGCTGACCCGAGCTGCTGGGGACCTGAGAGGCCCCAGGAAAGTGGCTCCATC 180

Qy 181 GCCCTCAGGGTGCACCTGGGGAGCACCTTAACCAAGGACCTGAGGGCTCCATC 240
Db 181 GCCCTCAGGGTGCACCTGGGGAGCACCTTAACCAAGGACCTGAGGGCTCCATC 240

Qy 241 AGGGGATCATGTTGACCCACAGTTCTACACGGCCGAGTGGCTCCATC 300
Db 241 AGGGGATCATGTTGACCCACAGTTCTACACGGCCGAGTGGCTCCATC 300

Qy 301 CTGGAGCTGGAGGAGCCGCTGAGGTCTCAGGCTCACGGCACCTGGCCCT 360
Db 301 CTGGAGCTGGAGGAGCCGCTGAGGTCTCAGGCTCACGGCACCTGGCCCT 360

Qy 361 GCCTCAGGACCTTCCCACCGGAAATTCTGAGAGGTAGGCTCAATGGA 420
Db 361 GCCTCAGGACCTTCCCACCGGAAATTCTGAGAGGTAGGCTCAATGGA 420

Qy 421 ACCACATTTGAGCAAATACACCTGGGCTACAGGGAGGACCTGGAC 540
Db 421 ACCACATTTGAGCAAATACACCTGGGCTACAGGGAGGACCTGGAC 540

Qy 541 GTCCGTGACGACATCTGAGGCTTCCCACCGGAAACCCGGAGGATCAAGGACGCC 600
Db 541 GTCCGTGACGACATCTGAGGCTTCCCACCGGAAACCCGGAGGATCAAGGACGCC 600

Db 121 CACCCCCAGTGGCTGACCCAGCGCAGTCGTGGACCCGACCTCAAGGATCTGCC 180
 Qy 181 GCCTCAGGTS3AACTCGGGAGAGCAGCACCTTAATCAGAGGACGACTCTGCAGTC 240
 Db 181 GCCTCAGGTS3AACTCGGGAGAGCAGCACCTTAATCAGAGGACGACTCTGCAGTC 240
 Qy 241 AGCAGGATCATGTCACGCCAACGAGCTTAATCAGAGGACGACTCTGCAGTC 300
 241 AGCAGGATCATGTCACGCCAACGAGCTTAATCAGAGGACGACTCTGCAGTC 300
 Db 61 CAGTGAGCTCTGGGCTCATCGCC 120
 Qy 121 CACCCCCAGTGGCTGACCCAGTGGACGACTCTGCAGTC 180
 121 CACCCCCAGTGGCTGACCCAGTGGACGACTCTGCAGTC 180
 Db 121 CACCCCCAGTGGCTGACCCAGTGGACGACTCTGCAGTC 180
 Qy 181 GCCTCAGGTS3AACTCGGGAGAGCAGCACCTCAAGGATCTGCC 240
 Qy 181 GCCTCAGGTS3AACTCGGGAGAGCAGCACCTCAAGGATCTGCC 240
 Db 360 301 CTGGAGCTGGAGGAGCCGTTGAAGGTCTCCAGCCACCTCCACGGTCACTGGCCCT 360
 Qy 360 301 CTGGAGCTGGAGGAGCCGTTGAAGGTCTCCAGCCACCTCCACGGTCACTGGCCCT 360
 Db 361 GCCTCAGAGACCTTCCCCGGGGATGCCSTGGTCACTGGGGCATGTGAC 420
 Qy 420 361 GCCTCAGAGACCTTCCCCGGGGATGCCSTGGTCACTGGGGCATGTGAC 420
 Db 421 AATGATGAGCAGCTCCACCGCATTCCTCTGAAGGAGTAAAGGTTCTTAATGAA 480
 Qy 480 421 AATGATGAGCAGCTCCACCGCATTCCTCTGAAGGAGTAAAGGTTCTTAATGAA 480
 Db 480 421 AATGATGAGCAGCTCCACCGCATTCCTCTGAAGGAGTAAAGGTTCTTAATGAA 480
 Qy 481 ACCACATTGTAAGCCTAACACACTTGGGCTAACCGGAGAGCAGCTCCGCATC 540
 481 ACCACATTGTAAGCCTAACACACTTGGGCTAACCGGAGAGCAGCTCCGCATC 540
 Db 540 541 GTCGCGTGAAGCATGCTGTCGGGAAACACGGAGGACTCATGTCAGGGACGCC 600
 Qy 600 541 GTCGCGTGAAGCATGCTGTCGGGAAACACGGAGGACTCATGTCAGGGACGCC 600
 Db 600 601 GCGGAGCCTCTGGCAAGGTCAGTGGGAGGAGCTGAGGAGCTGGGACTCTGG 660
 Qy 660 601 GCGGAGCCTCTGGCAAGGTCAGTGGGAGGAGCTGAGGAGCTGGGACTCTGG 660
 Db 660 601 GCGGAGCCTCTGGCAAGGTCAGTGGGAGGAGCTGAGGAGCTGGGACTCTGG 660
 Qy 660 661 GCGGAGCCTCTGGCAAGGTCAGTGGGAGGAGCTGAGGAGCTGGGACTCTGG 720
 Db 720 661 GCGGAGCCTCTGGCAAGGTCAGTGGGAGGAGCTGAGGAGCTGGGACTCTGG 720
 Qy 720 721 GACTGGATCCACCATATGCCCAAAGGGCTGAAGGGGGGCCCTGT 771
 Db 771 721 GACTGGATCCACCATATGCCCAAAGGGCTGAAGGGGGGCCCTGT 771

RESULT 7
 US-09-598-982C-38
 ; Sequence 38, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Haak-Frendscho, Mary
 ; APPLICANT: Maffitt, Mark
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506.104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIORITY NUMBER: 09/079, 970
 ; PRIORITY FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 38
 ; LENGTH: 771
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE: CDS
 ; NAME/KEY: CDS
 ; LOCATION: (7)..(753)
 ; US-09-598-982C-38
 Query Match 98.1% Score 756.5; DB 1; Length 771;
 Best Local Similarity 98.8%; Pct. Mismatches 0; Indels 0; Gaps 0;
 Matches 762; Conservative 0; Feature 1
 1 GGGCCCTGGAGAAAAGATCTGGGGCTGGAGGCCCCAGGAGCAAGTGGCTGG 60

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; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20

Query Match          97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0.042; Mismatches 0; Indels 0; Gaps 0;
Matches 761; Conservative 0; MisMatches 10; Index 0; Gaps 0;

Qy
1 GGGCCCTGAGAAAGAATGTTGGGGTCAGGGCCCAAGGAGCGTGCCTGGG 60
1 GGGCCCTGAGAAAGAATGTTGGGGTCAGGGCCCAAGGAGCGTGCCTGG 60

Qy
61 CAGGTGAGCTGAGGTACGGCCATCTGGATGACTCTGGGGGGCTCCATC 120
61 CAGGTGAGCTGAGGTACGGCCATCTGGATGACTCTGGGGGGCTCCATC 120

Qy
121 CACCCCAGGGTGCTGACGCCAGGTCAGGGACTGCGTGGACGGAGTCAGAGGTCTGCC 180
121 CACCCCAGGGTGCTGACGCCAGGTCAGGGACTGCGTGGACGGAGTCAGAGGTCTGCC 180

Db
181 GCCCTCAGGGTCACTGGGGAGGACCTCTAACCTGGACACCTGCGTCGCTC 240
181 GCCCTCAGGGTCACTGGGGAGGACCTCTAACCTGGACACCTGCGTCGCTC 240

Qy
241 AGCGGATCATCGTGACCCACAGTCTAACCGCCAGATCGGAGGACATGGCTG 300
241 AGCGGATCATCGTGACCCACAGTCTAACCGCCAGATCGGAGGACATGGCTG 300

Qy
301 CTGGAGCTGGAGGAGCCGCTGAAGGTCTCAGGCCAACGTCACCGGAGTCAGGAC 360
301 CTGGAGCTGGAGGAGCCGCTGAAGGTCTCAGGCCAACGTCACCGGAGTCAGGAC 360

Db
361 GCTCTAGAGACCTCCCGGGATGGCGTGGGGCACTGGCTGGGGCATGGAC 420
361 GCTCTAGAGACCTCCCGGGATGGCGTGGGGCACTGGCTGGGGCATGGAC 420

Qy
421 AATGTAAGGGCTCCACCGCCATTCTCTGAGGAGGTGAGGTCGCCATAATGAA 480
421 AATGTAAGGGCTCCACCGCCATTCTCTGAGGAGGTGAGGTCGCCATAATGAA 480

Db
481 AACCRCATTTGAGGCAAATAACCACTTGGGCTTACCGGAGTCAGGAGTCGGCAT 540
481 AACCRCATTTGAGGCAAATAACCACTTGGGCTTACCGGAGTCAGGAGTCGGCAT 540

Db
541 GTCGGTGGACATCTGTGCGGGAAACACCGGGAGCTCATGTCAGGGAGCC 600
541 GTCGGTGGACATCTGTGCGGGAAACACCGGGAGCTCATGTCAGGGAGCC 600

Qy
601 GGCGGACCTCTGGTGTGCAAGGTGATGCACTGGCTAACGGGGACTCTGG 660
601 GGCGGACCTCTGGTGTGCAAGGTGATGCACTGGCTAACGGGGACTCTGG 660

Db
661 GGCGGAGGCTGGTGCACGGCCACGGGCTGGATCTACCGGTGCACTACTCTG 720
661 GGCGGAGGCTGGTGCACGGCCACGGGCTGGATCTACCGGTGCACTACTCTG 720

Db
721 GACTGGATCCACCACTATGCCCCAAAAGCCGTGAGGGGGCCCGTGT 771
721 GACTGGATCCACCACTATGCCCCAAAAGCCGTGAGGGGGCCCGTGT 771

Db
721 GACTGGATCCACCACTATGCCCCAAAAGCCGTGAGGGGGCCCGTGT 771
721 GACTGGATCCACCACTATGCCCCAAAAGCCGTGAGGGGGCCCGTGT 771

RESULT 9
US-09-598-982C-36
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maftitt, Mark
; APPLICANT: Haak-Frendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21

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; PRIORITY APPLICATION NUMBER: 09/079,970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 36
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-36

Query	Match	Score	DB	Length
	Best Local Similarity	753	4;	771;
	Local 760;	98	6;	Score
	Conservative	98	6;	DB
	Pred.	No.	0;	Mismatches
	;	0;	;	Matches
	;	0;	;	;
Qy				
1	GGGCCCTCGAGAAGAATGTCGGGTCAAGAGGCCAGGCAAGTGGCCCTGG	60		
Db	GGGCCCTCGAGAAGAATGTCGGGTCAAGAGGCCAGGCAAGTGGCCCTGG	60		
1	GGGCCCTCGAGAAGAATGTCGGGTCAAGAGGCCAGGCAAGTGGCCCTGG	60		
Qy	61 CAGTGTAGCCCTGAGAGTCCACGGCCATACTGGATGTCAGTCAGTCAGTC	120		
Db	CAGTGTAGCCCTGAGAGTCCACGGCCATACTGGATGTCAGTCAGTCAGTC	120		
61	CAGTGTAGCCCTGAGAGTCCACGGCCATACTGGATGTCAGTCAGTCAGTC	120		
Qy	181 GCCTCTAGGTCGAATCTGGGGAGAGAACCTCTACTACAGGAGCACTCTG	240		
Db	GCCTCTAGGTCGAATCTGGGGAGAGAACCTCTACTACAGGAGCACTCTG	240		
181	GCCTCTAGGTCGAATCTGGGGAGAGAACCTCTACTACAGGAGCACTCTG	240		
Qy	241 AGCAGGATCATGTGACCCACAGTCTAACCGGCCAGATCGGAGGGACATCGCC	300		
Db	AGCAGGATCATGTGACCCACAGTCTAACCGGCCAGATCGGAGGGACATCGCC	300		
241	AGCAGGATCATGTGACCCACAGTCTAACCGGCCAGATCGGAGGGACATCGCC	300		
Qy	301 CTGGAGCTTGAGGACCGGTAACGCTTCAGGCACTTCAGCTTACCGGGTCCACAGGGTCAACCGGCTT	360		
Db	CTGGAGCTTGAGGACCGGTAACGCTTCAGGCACTTCAGCTTACCGGGTCCACAGGGCTT	360		
301	CTGGAGCTTGAGGACCGGTAACGCTTCAGGCACTTCAGCTTACCGGGTCCACAGGGCTT	360		
Qy	361 GCCTCGAGACCTCCCGGGGTGCGCTGCTGGTCACTGCTGGGGTCACTGGGAC	420		
Db	GCCTCGAGACCTCCCGGGGTGCGCTGCTGGTCACTGCTGGGGTCACTGGGAC	420		
361	GCCTCGAGACCTCCCGGGGTGCGCTGCTGGTCACTGCTGGGGTCACTGGGAC	420		
Qy	421 AATGATGAGCCCTCCACGCCATTCTCTGAGACAGCAGGTGATCCCATAATGAA	480		
Db	AATGATGAGCCCTCCACGCCATTCTCTGAGACAGCAGGTGATCCCATAATGAA	480		
421	AATGATGAGCCCTCCACGCCATTCTCTGAGACAGCAGGTGATCCCATAATGAA	480		
Qy	481 AACCACTTGTGACGCCAAATACCACTTGTGCGCTTACGGGGAGACAGTCGCATC	540		
Db	AACCACTTGTGACGCCAAATACCACTTGTGCGCTTACGGGGAGACAGTCGCATC	540		
481	AACCACTTGTGACGCCAAATACCACTTGTGCGCTTACGGGGAGACAGTCGCATC	540		
Qy	541 GTCCGTGACCAATGTGTGCGCGGAAACCCGGAGGACTCTGTCAAGGCCACGCC	600		
Db	GTCCGTGACCAATGTGTGCGCGGAAACCCGGAGGACTCTGTCAAGGCCACGCC	600		
541	GTCCGTGACCAATGTGTGCGCGGAAACCCGGAGGACTCTGTCAAGGCCACGCC	600		
Qy	601 GCGCGACCTCTGGTGTCAAGGTGATGGACACTCTGGCTGGGGGGCGTGTCAAGCTGG	660		
Db	GCGCGACCTCTGGTGTCAAGGTGATGGACACTCTGGCTGGGGGGCGTGTCAAGCTGG	660		
601	GCGCGACCTCTGGTGTCAAGGTGATGGACACTCTGGCTGGGGGGCGTGTCAAGCTGG	660		
Qy	661 GCGGGGGCTGTGCCAACCGCCCTGGCTGCACTTACACCCCTGTCACTACTCTG	720		
Db	GCGGGGGCTGTGCCAACCGCCCTGGCTGCACTTACACCCCTGTCACTACTCTG	720		
661	GCGGGGGCTGTGCCAACCGCCCTGGCTGCACTTACACCCCTGTCACTACTCTG	720		
Qy	721 GACTGATCCACCATATGTCCCCAAAAGCCGTGAGCGCCCGCGTCTG	771		
Db	GACTGATCCACCATATGTCCCCAAAAGCCGTGAGCGCCCGCGTCTG	771		
721	GACTGATCCACCATATGTCCCCAAAAGCCGTGAGCGCCCGCGTCTG	771		

GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 FILE REFERENCE: 34506_104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIORITY APPLICATION NUMBER: 09/079, 970
 PRIORITY FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 10
 LENGTH: 735
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (1)..(735)
 US-09-598-982C-10

Query Match 94.1%; Score 725.4; DB 1; Length 735;
 Best Local Similarity 99.2%; Pred. No. 0.059; Mismatches 6; Indels 0; Gaps 0;
 Matches 729; Conservative 0;

Qy 19 ATGCTCGGGGGTAGAGGGGCCAGGGCAATGGCCCTGGAGGTAGGCAGTCAGTC 78
 Db 1 ATGGTGGGGTACAGGAGGCCCCAGGGCAAGTGCCCTGGAGGTAGGCAGTC 60

Qy 79 CACGGCCCATATCGGATGCACTCTGGGGGCTCCCATCGTACCCCAAGGGCTG 138
 Db 61 CACGGCCCATATCGGATGCACTCTGGGGGCTCCCATCGTACCCCAAGGGCTG 120

Qy 139 ACGGCAAGGCACTGGCTGGAGGAAGGAGTCTGGCCCTTCAGGGTGCACTG 198
 Db 121 ACCGGCAAGGCACTGGCTGGAGGAAGGAGTCTGGCCCTTCAGGGTGCACTG 180

Qy 199 CGGGAGGAACTCTACTACCGGACAGCTCTGGGGTACGGAGGATCTGGCAC 258
 Db 181 CGGGAGGAACTCTACTACCGGACAGCTCTGGGGTACGGAGGATCTGGCAC 240

Qy 259 CGCAAGGTTAACCGGCCAGATGGAGGGACATGCCCTGTGGAGCTGGAGGCC 318
 Db 241 CCAAGGTTAACCGGCCAGATGGAGGGACATGCCCTGTGGAGCTGGAGGCC 300

Qy 319 GTGAGAGGTCTCGGCCAGTCACCTGCTGGGGGGATGGAGATGATGAGGGCTTCCC 378
 Db 301 GTGAGAGGTCTCGGCCAGTCACCTGCTGGGGGGATGGAGATGATGAGGGCTTCCC 360

Qy 379 CGGGGGATGGCTGGCTGGCTGGCTGGGGGGATGGAGATGATGAGGGCTTCCC 438
 Db 361 CGGGGGATGGCTGGCTGGCTGGCTGGAGATGATGAGGGCTTCCC 420

Qy 439 CGGGGGATGGCTGGAGGGAGGGCTGGAGATGATGAGGGCTTCCC 498
 Db 421 CGGGGGATGGCTGGAGGGAGGGCTGGAGATGATGAGGGCTTCCC 480

Qy 499 AAATACACCTTGCGGCCATACCGGAGGAGCTGGCTGGAGGGCTTCCC 558
 Db 481 AAATACACCTTGCGGCCATACCGGAGGAGCTGGCTGGAGGGCTTCCC 540

Qy 559 TGGCCGGAAACCCGGAGGACTCTGGCTGGAGGGAGGGCTTGGCTGG 618
 Db 541 TGGCCGGAAACCCGGAGGACTCTGGCTGGAGGGCTTGGCTGG 600

Qy 619 AAGGTGAATGGCACTGGCTGGAGGGAGGGCTTGGCTGGAGGGCTTGG 678
 Db 601 AAGGTGAATGGCACTGGCTGGAGGGAGGGCTTGGCTGGAGGGCTTGG 660

Qy 679 CCCAACCGGCTGGCATCTACCGGCTGGCTGGAGGGCTTGGCTGG 738
 Db 661 CCCAACCGGCTGGCATCTACCGGCTGGCTGGAGGGCTTGGCTGG 720

RESULT 11
 US-09-598-982C-8/C
 Sequence 8, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 FILE REFERENCE: 34506_104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIORITY APPLICATION NUMBER: 09/079, 970
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 8
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (7)..(753)
 US-09-598-982C-8

Query Match 3.7%; Score 28.2; DB 1; Length 771;
 Best Local Similarity 53.1%; Pred. No. 17; Mismatches 53; Indels 0; Gaps 0;
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

RESULT 13 US-09-598-982C-22/c

; Sequence Match 3.7%; Score 28.2; DB 1; Length 771;

Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

GENERAL INFORMATION:

SEQUENCE 22, Application US/09598982C

APPLICANT: Niles, Andrew

APPLICANT: Maffitt, Mark

APPLICANT: Haak-Frendscho, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

FILE REFERENCE: 34506.1-04

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 22

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (7)..(753)

US-09-598-982C-22

RESULT 14 US-09-598-982C-24/C

; Sequence Match 3.7%; Score 28.2; DB 1; Length 771;

Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

GENERAL INFORMATION:

SEQUENCE 24, Application US/09598982C

APPLICANT: Niles, Andrew

APPLICANT: Maffitt, Mark

APPLICANT: Haak-Frendscho, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

FILE REFERENCE: 34506.1-04

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 24

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (7)..(753)

US-09-598-982C-24

RESULT 15 US-09-598-982C-26/c

; Sequence Match 3.7%; Score 28.2; DB 1; Length 771;

Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

GENERAL INFORMATION:

SEQUENCE 26, Application US/09598982C

APPLICANT: Niles, Andrew

APPLICANT: Maffitt, Mark

APPLICANT: Haak-Frendscho, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

FILE REFERENCE: 34506.1-04

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 26

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (7)..(753)

US-09-598-982C-26

RESULT 16 US-09-598-982C-36/c

; Sequence Match 3.6%; Score 28.2; DB 1; Length 771;

Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

GENERAL INFORMATION:

SEQUENCE 36, Application US/09598982C

APPLICANT: Niles, Andrew

APPLICANT: Maffitt, Mark

APPLICANT: Haak-Frendscho, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

FILE REFERENCE: 34506.1-04

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 36

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (7)..(753)

US-09-598-982C-36
Query Match 3.7%; Score 28.2; DB 1; length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; Indels 0; Gaps 0;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

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Qy 1 GGCCCCCTCGAGAAAGATGCTGGGGTCAGGAGGCCAGGCACTGGCTTG 60
Db 113 GAGCCCGCGAGAAGTGCATCCAGTATGGCCGTGACTCTCAGGCTACAGGC 54
Qy 61 CAGGTGAGCTTAGAGTCACGCCATACTGATGACTCTGCGGGGTC 113
Db 53 CACTGCTCTGGGGCTCCGACCCGAGATTTCTCGAGGGGCC 1

```

RESULT 17
US-09-598-982C-38/c
Sequence 38, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Nilles, Andrew
APPLICANT: Maffitt, Mark
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 38
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-38

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; Indels 0; Gaps 0;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

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Qy 1 GGCCCCCTCGAGAAAGATGCTGGGGTCAGGAGGCCAGGCACTGGCTTG 60
Db 113 GAGCCCGCGAGAAGTGCATCCAGTATGGCCGTGACTCTCAGGCTACAGGC 54
Qy 61 CAGGTGAGCTTAGAGTCACGCCATACTGATGACTCTGCGGGGTC 113
Db 53 CACTGCTCTGGGGCTCCGACCCGAGATTTCTCGAGGGGCC 1

```

RESULT 18
US-09-598-982C-40/c
Sequence 40, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Nilles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendacho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 40
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens

RESULT 19
US-09-598-982C-42/c
Sequence 42, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Nilles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendacho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 42
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
US-09-598-982C-42

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; Indels 0; Gaps 0;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

```

Qy 1 GGCCCCCTCGAGAAAGATGCTGGGGTCAGGAGGCCAGGCACTGGCTTG 60
Db 113 GAGCCCGCGAGAAGTGCATCCAGTATGGCCGTGACTCTCAGGCTACAGGC 54
Qy 61 CAGGTGAGCTTAGAGTCACGCCATACTGATGACTCTGCGGGGTC 113
Db 53 CACTGCTCTGGGGCTCCGACCCGAGATTTCTCGAGGGGCC 1

```

RESULT 20
US-09-598-982C-10/c
Sequence 10, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Nilles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendacho, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 10
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens

LENGTH: 735 ;
; TYPE: DNA;
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
; US-09-598-982C-10

Query Match 3 %; Score 27.2; DB 1; Length 735;
Best Local Similarity 52.9%; Pred. No. 18;
Matches 100; Conservative 0; Mismatches 83; Indels 6; Gaps 2;

Qy 286 GCGGGCATCCCTCTGGAGCTGGAGGCCGGGAGGTCACAGC 345
Db 453 GGGBRACCTTCACTCTTCAGAGGAATGGCGGTAGCTCACAG 396
Qy 346 GTCACCTGCCCCCTGCCTAGAGACCTTCCCCCGGGATGCCCTGCTGGTCACTGGC 405
Db 395 -TCGGCCAGGAGTGACCCAGAACGCTACGGCTACGGG 337

Qy 406 TGGGCCGA---TGTGACAATGATGAGGCGCTCCACCGCATTTCTCTCTGAAGAGGGT 462
Db 336 CAGGTGACCGTGTGAGCTGAGACCTTCAACGGCTCAGCTCAGAGGG 277

Qy 463 AAGGTCCCC 471
Db 276 GATGCCGC 268

Search completed: August 26, 2005, 12:32:31
Job time : 4.81314 secB

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OM nucleic - nucleic search, using sw model

Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 seconds
; (without alignments)
4.206 Million cell updates/sec

Title: US-09-598-982C-26
Sequence: 1 ggccctcgagaaaaaat.....cqgtgaagcgccgcgcgtcgt 771

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 10 seqs, 7614 residues

Total number of hits satisfying chosen parameters: 20

Minimum DB seq length: 0
Maximum DB seq length: inf

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

database : US09598982C_rev.seq:*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result	Query No.	Score	Match Length	DB ID	Description
1	771	100.0	771	1	US-09-598-982C-26
2	769.4	99.8	771	1	US-09-598-982C-42

ALIGNMENTS

RESULT 1
US-09-598-982C-26
; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-05-21
; PRIORITY APPLICATION NUMBER: 09/079,970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-26

Query Match 100.0*; Score 771, DB 1; Length 771;
Best Local Similarity 100.0%; Pred. No. 0, 0.036; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGACCCCTCGAGAAAGATCGTGGGGGTAGAGGCCCGCCAGGAGAATGAGCTGG 60
Db 1 GGGCCCTCGAGAAAGATCGTGGGGGTAGAGGCCCGCCAGGAGAATGAGCTGG 60

Qy 61 CAGGTGAGCTGAGTCACGCCACTGATGACTCTCGGGGGCTCTCATC 120
Db 61 CAGGTGAGCTGAGTCACGCCACTGATGACTCTCGGGGGCTCTCATC 120

Qy 121 CACCCCGATGAGTGTGACCGCAGGACTCTGTTGACGAGCTGAGATCTGCC 180
Db 121 CACCCCGATGAGTGTGACCGCAGGACTCTGTTGACGAGCTGAGATCTGCC 180

Qy 181 GCCTCAAGGGTGAACCTGGGGAGGACCTCTACTACCGAGACAGCTGAGATCTGCC 240
Db 181 GCCTCAAGGGTGAACCTGGGGAGGACCTCTACTACCGAGACAGCTGAGATCTGCC 240

Qy 241 ASCAGGATCATGTCACCCACAGTGTACACCGCCGAGTCAGGCTGC 300
Db 241 AGCAGGATCATGTCACCCACAGTGTACACCGCCGAGTCAGGCTGC 300

Qy 301 CTGGAGGTGGAGGAGGCCGTGAAGTCGCCAGCTCCACAGGTACCCGCCCT 360

Sequence 24, Appl
Sequence 40, Appl
Sequence 8, Appl
Sequence 22, Appl
Sequence 38, Appl
Sequence 20, Appl
Sequence 36, Appl
Sequence 10, Appl
Sequence 8, Appl
Sequence 20, Appl
Sequence 22, Appl
Sequence 24, Appl
Sequence 26, Appl
Sequence 36, Appl
Sequence 38, Appl
Sequence 40, Appl
Sequence 42, Appl
Sequence 10, Appl

US-09-598-982C-40

QY 61 CAGGTGAGCCCTAGAGTCACCGCCCCATACTTGATGCACTTCTGCGGGGCTCCCTCATC 120
 Db 61 CGGGTGAACCTCTAGTCCACGGCCCTACTTGATGCACTTCTGCGGGGCTCCCTCATC 120
 QY 121 CACCCCGAGTGGTGTGACGCCAGGGCACTGCTGGACGGGACTCAAGGATCAGGATCAGG 180
 Db 121 CACCCCGAGTGGTGTGACGCCAGGGCACTGCTGGACGGGACTCAAGGATCAGGATCAGG 180
 QY 181 GCCTCAGGGGCAACTGGGGAGGACACTCTACTACCAAGGACAGCTTGCGGGT 240
 Db 181 GCCTCAGGGGCAACTGGGGAGGACACTCTACTACCAAGGACAGCTTGCGGGT 240
 QY 301 CTGGGAGCTGGGGAGGGTAAAGGTTCCAGGTCAGCTCCAGGAGGAAATGCGCTG 360
 Db 301 CTGGGAGCTGGGGAGGGTAAAGGTTCCAGGTCAGCTCCAGGAGGAAATGCGCTG 360
 QY 361 GCCTCAGAGACTTCCCCGGGAATCCGGTCTGGTCACTGGCTGGGGGATGGAC 420
 Db 361 GCCTCAGAGACTTCCCCGGGAATCCGGTCTGGTCACTGGCTGGGGGATGGAC 420
 QY 481 AACACATTGGTACGCACAAATACACCTTGAGCCGCTACAGGGAGACGAGTCGGCATC 540
 Db 481 AACACATTGGTACGCACAAATACACCTTGAGCCGCTACAGGGAGACGAGTCGGCATC 540
 QY 541 GTCGGTACGACGATGGTCCGGGACCGGGAGGATCTGGGCTACAGGGAGACGAGTCGGCATC 600
 Db 541 GTCGGTACGACGATGGTCCGGGACCGGGAGGATCTGGGCTACAGGGAGACGAGTCGGCATC 600
 QY 661 GCGGAGGCTGGCCAGGCCAACGGCTGCACTTACACCGGTCACTTACTCTGG 720
 Db 661 GCGGAGGCTGGCCAGGCCAACGGCTGCACTTACACCGGTCACTTACTCTGG 720
 QY 721 GACTGGATCCACACTATGCCCCAAAAGGGTGAAGCCGGCGCGCTG 771
 Db 721 GACTGGATCCACACTATGCCCCAAAAGGGTGAAGCCGGCGCGCTG 771

RESULT 4
 US-09-598-982C-40 Application US/09598982C
 ; Sequence 40, Application: US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506_104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: Patentin version 3.3
 ; SBO_ID NO 40
 ; LENGTH: 771
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE: NAME/KEY: CDS
 ; LOCATION: (7)..(753)

RESULT 5
 US-09-598-982C-8 Application US/09598982C
 ; Sequence 8, Application: US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Prandscho, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506_104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15


```

Db    721 GACTGATCACCACCATGTCCCCAAAGCGTGAAGCGCCcgccgtc 771
;
; RESULT 7
; US-09-598-982C-38
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Nileb, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendschou, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; PRIORITY NUMBER: 09/079, 970
; SEQ ID NO: 38
; NUMBER OF SEQ ID NOS: 52
; LENGTH: 771
; SOFTWARE: PatentIn version 3.3
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; FEATURE:
; LOCATION: (7) .. (753)
; US-09-598-982C-38

Query Match, 98.8%; Score 756.6; DB 1; Length 771;
Best Local Similarity 98.8%; Pred. No. 0.042; 0; Mismatches 9; Indels 0; Gaps 0;
Matches 762; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy    1 GGGCCCTCGAGAAGAAATGTCGGGGGTGGAGGAGGAGTGGCTGG 60
Db    1 GGGCCCTCGAGAAGAAATGTCGGGGGTGGAGGAGGAGTGGCTGG 60
Qy    61 CAGGTGAGCCAGTCACTGATGTCATCTGGCTCCATCTCATC 120
Db    61 CAGGTGAGCCAGTCACTGATGTCATCTGGCTCCATCTCATC 120
Qy    121 CACCCCACTGGTGTGACCCGAGGACTCTGGGGGACGGGAGCTGAGGATGGCC 180
Db    121 CACCCCACTGGTGTGACCCGAGGACTCTGGGGGACGGGAGCTGAGGATGGCC 180
Qy    181 GCCTCAGGGTGCAACTGGGGGACCTCTACTACAGAACAGTGCTGGCGTC 240
Db    181 GCCTCAGGGTGCAACTGGGGGACCTCTACTACAGAACAGTGCTGGCGTC 240
Qy    181 GOCTTGGGGGCAACTGGGGGACCTCTACTACAGAACAGTGCTGGCGTC 240
Db    181 GOCTTGGGGGCAACTGGGGGACCTCTACTACAGAACAGTGCTGGCGTC 240
Qy    241 AGCAGGATCATGTCGACCAAGTCTACACGCCAGATGGAGCGGGATCTGC 300
Db    241 AGCAGGATCATGTCGACCAAGTCTACACGCCAGATGGAGCGGGATCTGC 300
Qy    301 CTGGAGCTGGGGGGGAGCTCCCGGGGATCCGGCTGGGGGGGGGGGGGG 360
Db    301 CTGGAGCTGGGGGGGAGCTCCCGGGGATCCGGCTGGGGGGGGGGGGGG 360
Qy    361 GCTCTAGAGACCTTCCCCCGGGGATCCGGCTGGGGGGGGGGGGGGGG 420
Db    361 GCTCTAGAGACCTTCCCCCGGGGATCCGGCTGGGGGGGGGGGGGGGG 420
Qy    361 GCTCTAGAGACCTTCCCCCGGGGATCCGGCTGGGGGGGGGGGGGGGG 420
Db    361 GCTCTAGAGACCTTCCCCCGGGGATCCGGCTGGGGGGGGGGGGGGGG 420
Qy    481 ACCACATTGGTGAACAAATACACCTTGGGGCTACAGGGAGACGACTGGC 540
Db    481 ACCACATTGGTGAACAAATACACCTTGGGGCTACAGGGAGACGACTGGC 540
Qy    421 ATGATGAGCGCCTCCACCGCGATTCCTGTAAGCAGGGATGGCCAT 480
Db    421 ATGATGAGCGCCTCCACCGCGATTCCTGTAAGCAGGGATGGCCAT 480
Qy    541 GTCCGGAGGAGATGGTGTGCCGAGACCCCGGGGAGGACTATGCCAGAGGCC 600
Db    541 GTCCGGAGGAGATGGTGTGCCGAGACCCCGGGGAGGACTATGCCAGAGGCC 600
Qy    541 GTCCGGAGGAGATGGTGTGCCGAGACCCCGGGGAGGACTATGCCAGAGGCC 600
Db    541 GTCCGGAGGAGATGGTGTGCCGAGACCCCGGGGAGGACTATGCCAGAGGCC 600
;
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Db    721 GACTGATCACCACCATGTCCCCAAAGCGTGAAGCGCCcgccgtc 771
;
; RESULT 8
; US-09-598-982C-20
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Nileb, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendschou, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; PRIORITY NUMBER: 09/079, 970
; SEQ ID NO: 20
; NUMBER OF SEQ ID NOS: 52
; LENGTH: 771
; SOFTWARE: PatentIn version 3.3
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; FEATURE:
; LOCATION: (7) .. (753)
; US-09-598-982C-20

Query Match, 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0.042; 0; Mismatches 10; Indels 0; Gaps 0;
Matches 761; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy    1 GGGCCCTCGAGAAGAAATGTCGGGGGTGGAGGAGGAGTGGCTGG 60
Db    1 GGGCCCTCGAGAAGAAATGTCGGGGGTGGAGGAGGAGTGGCTGG 60
Qy    61 CAGGTGAGCTGAGAACAGTCTGGGGGATCTGGGGGATCTGGGGG 120
Db    61 CAGGTGAGCTGAGAACAGTCTGGGGGATCTGGGGGATCTGGGGG 120
Qy    121 CACCCCACTGGTGTGACCCGAGGACTCTGGGGGACGGGAGCTGAGGATGGCC 180
Db    121 CACCCCACTGGTGTGACCCGAGGACTCTGGGGGACGGGAGCTGAGGATGGCC 180
Qy    181 GCCTCAGGGTGCAACTGGGGGACCTCTACTACAGAACAGTGCTGGCGTC 240
Db    181 GCCTCAGGGTGCAACTGGGGGACCTCTACTACAGAACAGTGCTGGCGTC 240
Qy    181 GOCTTGGGGGCAACTGGGGGACCTCTACTACAGAACAGTGCTGGCGTC 240
Db    181 GOCTTGGGGGCAACTGGGGGACCTCTACTACAGAACAGTGCTGGCGTC 240
Qy    241 AGCAGGATCATGTCGACCAAGTCTACACGCCAGATGGAGCGGGATCTGC 300
Db    241 AGCAGGATCATGTCGACCAAGTCTACACGCCAGATGGAGCGGGATCTGC 300
Qy    301 CTGGAGCTGGGGGGGAGCTCCCGGGGATCCGGCTGGGGGGGGGGGGGG 360
Db    301 CTGGAGCTGGGGGGGAGCTCCCGGGGATCCGGCTGGGGGGGGGGGGGG 360
Qy    361 GCTCTAGAGACCTTCCCCCGGGGATCCGGCTGGGGGGGGGGGGGGGG 420
Db    361 GCTCTAGAGACCTTCCCCCGGGGATCCGGCTGGGGGGGGGGGGGGGG 420
Qy    421 ATGATGAGCGCCTCCACCGCGATTCCTGTAAGCAGGGATGGCCAT 480
Db    421 ATGATGAGCGCCTCCACCGCGATTCCTGTAAGCAGGGATGGCCAT 480
Qy    481 ACCACATTGGTGAACAAATACACCTTGGGGCTACAGGGAGACGACTGGC 540
Db    481 ACCACATTGGTGAACAAATACACCTTGGGGCTACAGGGAGACGACTGGC 540
Qy    541 GTCCGGAGGAGATGGTGTGCCGAGACCCCGGGGAGGACTATGCCAGAGGCC 600
Db    541 GTCCGGAGGAGATGGTGTGCCGAGACCCCGGGGAGGACTATGCCAGAGGCC 600
Qy    541 GTCCGGAGGAGATGGTGTGCCGAGACCCCGGGGAGGACTATGCCAGAGGCC 600
Db    541 GTCCGGAGGAGATGGTGTGCCGAGACCCCGGGGAGGACTATGCCAGAGGCC 600
;
```

RESULT 9
US-09-598-982C-36

; Sequence 36, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Fredericks, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, FILE REFERENCE: 34506_104

; CURRENT APPLICATION NUMBER: US/09/598, 982C

; CURRENT FILING DATE: 2000-06-21

; PRIOR APPLICATION NUMBER: 09-079, 970

; PRIOR FILING DATE: 1998-04-15

; NUMBER OF SEQ ID NOS: 52

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 36 LENGTH: 771

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE: CDS

; NAME/KEY: (7) .. (753)

; LOCATION: (7) .. (753)

; US-09-598-982C-36

Query Match Best Local Similarity 97.7%; Score 753.4; DB 1; length 771; Matches 760; Conservative 98.6%; Pred. No. 0; 043; 11; Indels 0; Gaps 0;

Qy 1 GGGCCCTCGAGAAAGATCGTGGGGTCAGGAGGCCAGGCAAGTGGCCCTGG 60

Db 1 GGGCCCTCGAGAAAGATCGTGGGGTCAGGAGGCCAGGCAAGTGGCCCTGG 60

Qy 61 CAGGTGAGCTTGACCCATACTGGTGGCTGCGGGCTCCATC 120

Db 61 CAGGTGAGCTTGACCCATACTGGTGGCTGCGGGCTCCATC 120

Qy 121 CACCCCCAGTGTGCAACTGGGGAGCACCTTAACCAAGGACGCTGAAGATCGGCC 180

Db 121 CACCCCCAGTGTGCAACTGGGGAGCACCTTAACCAAGGACGCTGAAGATCGGCC 180

Qy 181 GCCCTCAGGGTCAACTGGGGAGCACCTTAACCAAGGACGCTGAAGATCGGCC 240

Db 181 GCCCTCAGGGTCAACTGGGGAGCACCTTAACCAAGGACGCTGAAGATCGGCC 240

Qy 241 AGGAGGATCATGTCACCCACAGTTCTACACGCCAGATGGAGGGACATCGCCCTG 300

Db 241 AGGAGGATCATGTCACCCACAGTTCTACACGCCAGATGGAGGGACATCGCCCTG 300

Qy 301 CTGGAGCTGAGGAGCCGCTGAGGTCTCCACACGCTGAGGAGCTGCGCCCT 360

RESULT 10
US-09-598-982C-10

; Sequence 10, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Fredericks, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, FILE REFERENCE: 34506_104

; CURRENT APPLICATION NUMBER: US/09/598, 982C

; CURRENT FILING DATE: 2000-06-21

; PRIOR APPLICATION NUMBER: 09-079, 970

; PRIOR FILING DATE: 1998-04-15

; NUMBER OF SEQ ID NOS: 52

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 10 LENGTH: 735

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE: CDS

; NAME/KEY: CDS

; LOCATION: (1) .. (735)

; US-09-598-982C-10

Query Match Best Local Similarity 94.1%; Score 725.4; DB 1; length 735; Matches 729; Conservative 99.2%; Pred. No. 0; 059; 6; Indels 0; Gaps 0;

Qy 19 ATGGCTGGGGTCAAGGAGGCCAGGAGCTGCAGTGGCCCTGAGGCTGAGACT 78

Db 1 ATGGCTGGGGTCAAGGAGGCCAGGAGCTGCAGTGGCCCTGAGGCTGAGACT 78

Qy 79 CAGGCCCTACTGGATGCACTTCTGGGGGGCTCCATCCACCCCCAGTGGCTG 138

Db 61 CAGGGCCCTACTGGATGCACTTCTGGGGGGCTCCATCCACCCCCAGTGGCTG 120

Qy 139 ACCGGAGGCACTGGGGGGCTCCATCCACCCCCAGTGGCTG 198

Db 121 AccGGAGGCACTGGGGGGCTCCATCCACCCCCAGTGGCTG 180

Qy 199 CGGAGGAGGACCTTACTACAGGAGGACCTGCTCCCTGAGGAGTCACTG 258

Db 181 CGGGAGCAGCACTCTACTACAGAACAGTCGTCGCCATCGAGGATCATGTGAC 240
 Qy 259 CCACAGTTCTACACCCCAAGATCGAGGCCAGATGCCCTGCTGAGCTGGAGGCC 318
 Db 241 CCACAGTTCTACACCCCAAGATCGAGGCCAGATGCCCTGCTGAGCTGGAGGCC 300
 Qy 319 GTGAAAGTCTCCAGCACGGTCAAGGTACCGGTCACCGGTCACCGGTCACCGG 378
 Db 301 GTGAAAGTCTCCAGCACGGTCAAGGTACCGGTCACCGGTCACCGGTCACCGG 360
 Qy 379 CGGGAGTGGCTGGGACTGCTGGGATGAGGTCGCCATTGGAAACACATTTGACCA 438
 Db 361 CGGGAGTGGCTGGGACTGCTGGGATGAGGTCGCCATTGGAAACACATTTGACCA 420
 Qy 439 CGGCCATTCTCTGAAGCAGGTGAAGGTCGCCATTGGAAACACATTTGACCA 498
 Db 421 CGCCATTCTCTGAAGCAGGTGAAGGTCGCCATTGGAAACACATTTGACCA 480
 Qy 499 ATATACCACTTGGCTTACGGACGAGTGGACATGGAAACACATTTGACCA 558
 Db 481 ATATACCACTTGGCTTACGGACGAGTGGACATGGAAACACATTTGACCA 540
 Qy 559 TGTGCCGGAACCCGGAGGACTATGCCAAGGAGCCGGGACACTGGTGC 618
 Db 541 TGTGCCGGAACCCGGAGGACTATGCCAAGGAGCCGGGACACTGGTGC 600
 Qy 619 AGGGTAATGGACCTGGCTGAGGAGGGGGCTGGTACGGTGGGGAGGGTGTCCAG 678
 Db 601 AGGGTAATGGACCTGGCTGAGGAGGGGGCTGGTACGGTGGGGAGGGTGTCCAG 660
 Qy 679 CCAACCGGGCTGGCATCTACACCCCTGCACTACTGACTGATGCCACTAT 738
 Db 661 CCAACCGGGCTGGCATCTACACCCCTGCACTACTGACTGATGCCACTAT 720
 Qy 739 GTCCCCAAAAGCG 753
 Db 721 GTCCCCAAAAGCG 735

RESULT 11
 US-09-598-982C-8/c
 Sequence 8, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 APPLICANT: Haak-Prendascho, Mary
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 TITLE OF INVENTION: AND METHODS OF MAKING SAME
 FILE REFERENCE: 34506.104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIOR APPLICATION NUMBER: 09/079, 970
 PRIOR FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: Patentin version 3.3
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: CDS
 LOCATION: (7) .. (753)

RESULT 12
 US-09-598-982C-20/c
 Sequence 20, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 APPLICANT: Haak-Prendascho, Mary
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 TITLE OF INVENTION: AND METHODS OF MAKING SAME
 FILE REFERENCE: 34506.104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIOR APPLICATION NUMBER: 09/079, 970
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: Patentin version 3.3
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: CDS
 LOCATION: (7) .. (753)

RESULT 13
 US-09-598-982C-22/c
 Sequence 22, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 APPLICANT: Haak-Prendascho, Mary
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 TITLE OF INVENTION: AND METHODS OF MAKING SAME
 FILE REFERENCE: 34506.104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIOR APPLICATION NUMBER: 09/079, 970
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: Patentin version 3.3
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: CDS
 LOCATION: (7) .. (753)

Query Match Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
 Qy 1 GGCCCCCTGGAGAAAGATCGGGGGCTGGAGGCCAGGCAAGTGGCTGG 60
 Db 113 GGCCCCCTGGAGAAAGATCGGGGGCTGGAGGCCAGGCAAGTGGCTGG 54

Query Match Best Local Similarity 3.7%; Score 28.2; DB 1; Length 771;
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
 Qy 1 GGGCCCTGGAGAAAGATCGGGGGCTGGAGGCCAGGCAAGTGGCTGG 60

```

RESULT 14
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-24

Query Match 3.7%; score 28.2; DB 1; Length 771;
Matches 60; Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAGCCCTCGAGAAAGAATCGGGGTAGGAGACGCCAGGGCAGTGCCCTGG 60
Db 113 GAGCCCCGGAGAGTCATCGATCTGAGTGGCGCTGACTCTGAGGC 54
QY 61 CAGGTGAGCTGAGAGTCACGCCCATACTGATGACTTGCGGGGCTC 113
Db 53 CACTGCTCTGGGCCCTGACCCCCGAGATTCTTCTGGAGGGCCC 1

RESULT 15
; Sequence 25, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-36

Query Match 3.7%; score 28.2; DB 1; Length 771;
Matches 60; Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAGCCCTCGAGAAAGAATCGGGGTAGGAGACGCCAGGGCAGTGCCCTGG 60
Db 113 GAGCCCCGGAGAGTCATCGATCTGAGTGGCGCTGACTCTGAGGC 54
QY 61 CAGGTGAGCTGAGAGTCACGCCCATACTGATGACTTGCGGGGCTC 113
Db 53 CACTGCTCTGGGCCCTGACCCCCGAGATTCTTCTGGAGGGCCC 1

RESULT 16
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 36
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-36

Query Match 3.7%; score 28.2; DB 1; Length 771;
Matches 60; Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAGCCCTCGAGAAAGAATCGGGGTAGGAGACGCCAGGGCAGTGCCCTGG 60
Db 113 GAGCCCCGGAGAGTCATCGATCTGAGTGGCGCTGACTCTGAGGC 54
QY 61 CAGGTGAGCTGAGAGTCACGCCCATACTGATGACTTGCGGGGCTC 113
Db 53 CACTGCTCTGGGCCCTGACCCCCGAGATTCTTCTGGAGGGCCC 1

RESULT 17
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-38

Query Match 3.7%; score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;

```

```

Query Match Similarity 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
Matche 53; Indels 0; Gaps 0;

Qy 1 GGGCCCTCGAGAAAGATGTCGGGGTCAAGGAGGCCAGAAGTGGCCTG 60
Db 113 GAGCCCCGAGAGTCATCATCGATGGCGGTGACTCTAGGCTCAGGC 54

Qy 61 CAGGTGAGCTGAGAGTCACGGCCATACTGGATGACTCTGGCGGGCTC 113
Db 53 CACTCTCTGGGGCTCTGACCCGAGGATCTTCTCAGGAGGCC 1

RESULT 18
US-09-598-982C-40/C

; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-40

Query Match Similarity 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
Matche 53; Indels 0; Gaps 0;

Qy 1 GGGCCCTCGAGAAAGATGTCGGGGTCAAGGAGGCCAGAAGTGGCCTG 60
Db 113 GAGCCCCGAGAGTCATCATCGATGGCGGTGACTCTAGGCTCAGGC 54

Qy 61 CAGGTGAGCTGAGAGTCACGGCCATACTGGATGACTCTGGCGGGCTC 113
Db 53 CACTCTCTGGGGCTCTGACCCGAGGATCTTCTCAGGAGGCC 1

RESULT 19
US-09-598-982C-42/C

; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
; US-09-598-982C-10

Query Match Similarity 3.5%; Score 27.2; DB 1; Length 735;
Best Local Similarity 52.9%; Pred. No. 18; Matches 100; Conservative 0; Mismatches 83; Indels 6; Gaps 2;
Matche 83; Indels 6; Gaps 2;

Qy 286 GGGGACATCCCGCTGAGCTGGAGCTGGAGGAGCGCTGAAGGTCTTCAGGCCAGTG 345
Db 453 GGGGACATCCCGCTGAGCTGGAGCTGGAGGAGCGCTGAAGGTCTTCAGGCCAGTG 396

Qy 346 GTCAACCTCTCCCTGCTCTAGAACCTTCCCGGAGAATGCCGGTGGAGCGCTCATCGTTGTCACA-- 405
Db 395 -TGCCTCCGGAGGAGAACAGCACGGCTCCCGGAGGAGGAGGCTCTGGAGGAGGG 337

Qy 406 TGGGGCA--TGTGACATGATGAGCCCTCCACCCCATTCCTGAAAGAGGTG 462
Db 336 CAGGGTGAAGCTGGACCTGGAGGACCTTCACCGCTCCAGGAGGCC 277

Qy 463 AAGGTCCC 471
Db 276 GATGRCGC 268

RESULT 20
US-09-598-982C-10/C

; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
; US-09-598-982C-10
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Search completed: August 26, 2005, 12:32:32
 Job time : 3.81314 sec

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OM nucleic - nucleic search, using sw model.

Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds

(without alignments)
4.206 Million cell updates/sec

Title: US-09-598-982C-36
Perfect score: 771
Sequence: 1 gggccctcgagaaaagat.....cgtgaaggggccgcgtcgt 771

Scoring table: IDENTITY_NUC
Searched: Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 20

Minimum DB seq length: 0
Maximum DB seq length: int

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

Database : US09598982C_rev.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the total score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	771	100.0	771	1	US-09-598-982C-36
2	769.4	99.8	771	1	US-09-598-982C-20
3	763	99.0	771	1	US-09-598-982C-8
4	761.4	98.8	771	1	US-09-598-982C-38
5	759.8	98.5	771	1	US-09-598-982C-22
6	759	97.9	771	1	US-09-598-982C-40
7	755	97.9	771	1	US-09-598-982C-42
8	753.4	97.7	771	1	US-09-598-982C-24
9	753	97.7	771	1	US-09-598-982C-26
10	727	94.3	735	1	US-09-598-982C-10
11	32.4	4.2	771	1	US-09-598-982C-20
12	32.4	4.2	771	1	US-09-598-982C-36
13	28.2	3.7	771	1	US-09-598-982C-8
14	28.2	3.7	771	1	US-09-598-982C-22
15	28.2	3.7	771	1	US-09-598-982C-24
16	28.2	3.7	771	1	US-09-598-982C-26
17	28.2	3.7	771	1	US-09-598-982C-38
18	28.2	3.7	771	1	US-09-598-982C-40
19	28.2	3.7	771	1	US-09-598-982C-42
20	27.6	3.6	735	1	US-09-598-982C-10

ALIGNMENTS

RESULT 1
US-09-598-982C-36
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: J4506.104
CURRENT FILING NUMBER: US/09/598, 982C
PRIORITY APPLICATION NUMBER: 09/073, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3

RESULT 2
US-09-598-982C-20
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Frendscho, Mary

```

RESULT 3
US-09-598-982C-8
; SEQUENCE B, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
SEQ ID NO 8
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)
; US-09-598-982C-8

Query Match          99 %;  Score 763;  DB 1;  Length 771;
Best Local Similarity 99.4%;  Pred. No. 0.03%;  Matches 0;  Mismatches 5;  Indels 0;  Gaps 0;
Matches 766;  Conservative 0;  Mismatches 5;  Indels 0;  Gaps 0;

QY
1 GGCCGCCCTCGAGAAAGAATCGTCGGGTCAGAGGCCGCCAGAGCAAGTGGCCCTGG 60
1 GGGCCCTCGAGAAAGAATCGTCGGGTCAGAGGCCGCCAGAGCAAGTGGCCCTGG 60
Db
61 CAGGTGAGCTGAGATGTCAGCGGCCATACTGGATGACACTCTGCGGGGCTCCCTCATC 120
61 CAGGTGAGCTGAGATGTCAGCGGCCATACTGGATGACACTCTGCGGGGCTCCCTCATC 120
Qy
121 CACCCCCAGTGGGCTGACGCCCGGGCTGCCTGGACCGAGCTCAANGATCTGGC 180
121 CACCCCCAGTGGGCTGACGCCCGGGCTGCCTGGACCGAGCTCAANGATCTGGC 180
Dy
181 GCCCTCAGGTGCACTGCGGAGAACCTACCAAGGACAGCTCTGGCGGCG 240
181 GCCCTCAGGTGCACTGCGGAGAACCTACCAAGGACAGCTCTGGCGGCG 240
Qy
241 AGCGAGATCATCGTCACCCACACTCTACCCGCCAGATGGAGGGACATCGCTGCGGCTG 300
241 AGCGAGATCATCGTCACCCACACTCTACCCGCCAGATGGAGGGACATCGCTGCGGCTG 300
Db
301 CTGGAGCTGAGGGCGGTGAACCTCTCAGGCCGTCACCGTCACTACCGGAGCT 360
301 CTGGAGCTGAGGGCGGTGAACCTCTCAGGCCGTCACCGTCACTACCGGAGCT 360
Dy
361 GCTCTAGAGACCTTCCTCCGGGAGTCGCTGCTGGTCACTGGCTGGGGCATGTCGAC 420
361 GCTCTAGAGACCTTCCTCCGGGAGTCGCTGCTGGTCACTGGCTGGGGCATGTCGAC 420
Qy
421 AATGATGAGGCCCTACCGCCATTTCCTCTGAAGCAGGTGAAGCTCCCTATAATGGAA 480
421 AATGATGAGGCCCTACCGCCATTTCCTCTGAAGCAGGTGAAGCTCCCTATAATGGAA 480
Db
481 AACCRCAATTGTTGAGGCAAAATACCACTTGGCCTACAGGGAGACGTCTCCATC 540
481 AACCRCAATTGTTGAGGCAAAATACCACTTGGCCTACAGGGAGACGTCTCCATC 540
Db
541 GTCCTGAGCACATCTGTGCGGGACACCCGAGGACTCTGCCAGGGACTCC 600
541 GTCCTGAGCACATCTGTGCGGGACACCCGAGGACTCTGCCAGGGACTCC 600
Qy
601 GGAGGCCCTCTGGTGCAAGGTGAATGGACCTGCTGAGGCGGGTGTCACTGG 660

```

RESULT 4
US-09-598-982C-3B
Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendacho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506..104
CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 1998-04-15
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patentin version 3.3
; SEQ ID NO: 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-3B
Query Match 98.8%; Score 761.4; DB 1; Length 771;
Best Local Similarity 99.2%; Pred. No. 0.039; 0; Mismatches 6; Indels 0; Gaps 0;
Matches 765; Conservative 0;
;
Qy 1 GGCCCCCTCTGAAAGAATCGGGGGTCAAGGAGGCCAACGGCCCTGG 60
Db 1 GGGCCCCCTCTGAAAGAATCGGGGGTCAAGGAGGCCAACGGCCCTGG 60
Qy 61 CAGGTGAGCTGAGTCACCGCCCTACTGATGACTTGCGGGGCTCCATC 120
Db 61 CAGGTGAGCTGAGTCACCGCCCTACTGATGACTTGCGGGGCTCCATC 120
Qy 121 CACCCCCCTGTTGCTGAGCCGCGCTGGAGACCGCCGCTGG 180
Db 121 CACCCCCCTGTTGCTGAGCCGCGCTGGAGACCGCCGCTGG 180
Qy 181 GCCTCTCAGGTGTTGCTGAGCCGCGCTGGAGACCGCCGCTGG 240
Db 181 GCCTCTCAGGTGTTGCTGAGCCGCGCTGGAGACCGCCGCTGG 240
Qy 241 AGCAGGATCATCTGCAACCACTGAGCTGAGCCGCGCTGGAGACCGCCGCTGG 300
Db 241 AGCAGGATCATCTGCAACCACTGAGCTGAGCCGCGCTGGAGACCGCCGCTGG 300
Qy 301 CTGAGCTGAGACTTCCCAGGAGATGCGCTCACGCGCACCTGGCCCT 360
Db 301 CTGAGCTGAGACTTCCCAGGAGATGCGCTCACGCGCACCTGGCCCT 360
Qy 361 GCCTCTGAGACTTCCCAGGAGATGCGCTCACGCGCACCTGGCCCT 360
Db 361 GCCTCTGAGACTTCCCAGGAGATGCGCTCACGCGCACCTGGCCCT 360
Qy 421 ATGATGAGCCGCTTCCACCGGCTTCTGAGCTGAGCTGAGCCGCTGG 480
Db 421 ATGATGAGCCGCTTCCACCGGCTTCTGAGCTGAGCCGCTGG 480
Qy 481 ACCACACATTGAGCCAAATACACCTGCGCTCACCGAGAGACGCCGATC 540

RESULT 5
US-09-598-982C-22
Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendacho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506..104
CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patentin version 3.3
; SEQ ID NO: 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-22
Query Match 98.5%; Score 759.8; DB 1; Length 771;
Best Local Similarity 99.1%; Pred. No. 0.04; 0; Mismatches 7; Indels 0; Gaps 0;
Matches 764; Conservative 0;
;
Qy 1 GGGCCCCCTCTGAAAGAATCGGGGGTCAAGGAGGCCAACGGCCCTGG 60
Db 1 GGGCCCCCTCTGAAAGAATCGGGGGTCAAGGAGGCCAACGGCCCTGG 60
Qy 61 CAGGTGAGCTGAGTCACCGCCCTACTGATGACTTGCGGGGCTCCATC 120
Db 61 CAGGTGAGCTGAGTCACCGCCCTACTGATGACTTGCGGGGCTCCATC 120
Qy 121 CACCCCCCTGTTGCTGAGCCGCGCTGGAGACCGCCGCTGG 180
Db 121 CACCCCCCTGTTGCTGAGCCGCGCTGGAGACCGCCGCTGG 180
Qy 181 GCCTCTCAGGTGTTGCTGAGCCGCGCTGGAGACCGCCGCTGG 240
Db 181 GCCTCTCAGGTGTTGCTGAGCCGCGCTGGAGACCGCCGCTGG 240
Qy 241 AGCAGGATCATCTGCAACCACTGAGCTGAGCCGCGCTGGAGACCGCCGCTGG 300
Db 241 AGCAGGATCATCTGCAACCACTGAGCTGAGCCGCGCTGGAGACCGCCGCTGG 300
Qy 301 CTGAGCTGAGACTTCCCAGGAGATGCGCTCACGCGCACCTGGCCCT 360
Db 301 CTGAGCTGAGACTTCCCAGGAGATGCGCTCACGCGCACCTGGCCCT 360
Qy 361 GCCTCTGAGACTTCCCAGGAGATGCGCTCACGCGCACCTGGCCCT 360
Db 361 GCCTCTGAGACTTCCCAGGAGATGCGCTCACGCGCACCTGGCCCT 360
Qy 421 ATGATGAGCCGCTTCCACCGGCTTCTGAGCTGAGCCGCTGG 480
Db 421 ATGATGAGCCGCTTCCACCGGCTTCTGAGCTGAGCCGCTGG 480
Qy 481 ACCACACATTGAGCCAAATACACCTGCGCTCACCGAGAGACGCCGATC 540

RESULT 6
US-09-598-982C-40
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew^W
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34:06:10:4
CURRENT APPLICATION NUMBER: US/09/598, 982C
PRIORITY FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 40
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: CDS
NAME/KEY: (7)..(753)
LOCATION: (7)..(753)
US-09-598-982C-40

Query Match 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0; Indels 0; Gaps 0;
Matches 761; Conservative 0; Mismatches 10;

QY 361 GCCTCAGAGACCTCCCGGGGATGCCGTGCTGTTCACTGACTGTGGGATGTTGAC 420
Db 361 GCCTCAGAGACCTCCCGGGGATGCCGTGCTGTTCACTGACTGTGGGATGTTGAC 420
QY 421 ATCATGAGGCCTTCCACCGGATTCCTCTTGAGCAGGTGAAAGTCCATTATGAA 480
Db 421 ATCATGAGGCCTTCCACCGGATTCCTCTTGAGCAGGTGAAAGTCCATTATGAA 480
QY 481 AACACATTGTGAGCAAATTCACCTTGGCTTACAGGAGAGACCTCCGCAATC 540
Db 481 AACACATTGTGAGCAAATTCACCTTGGCTTACAGGAGAGACCTCCGCAATC 540
QY 541 GTCGTGAGCACTTGCTGAGGAAACACCGGAGACTCATGCGAGGACTTC 600
Db 541 GTCGTGAGCACTTGCTGAGGAAACACCGGAGACTCATGCGAGGACTTC 600
QY 601 GGAGGCCCTGTGAGGAAACACCGGAGACTTGCTGAGGAGGACTTC 660
Db 601 GGAGGCCCTGTGAGGAAACACCGGAGACTTGCTGAGGAGGACTTC 660
QY 721 GATGGATCACCACATACTCCCAAAGGCGTGAAGGGGGCCCGTGT 771
Db 721 GATGGATCACCACATACTCCCAAAGGCGTGAAGGGGGCCCGTGT 771

RESULT 6
US-09-598-982C-40
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew^W
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34:06:10:4
CURRENT APPLICATION NUMBER: US/09/598, 982C
PRIORITY FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 40
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: CDS
NAME/KEY: (7)..(753)
LOCATION: (7)..(753)

Query Match 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0; Indels 0; Gaps 0;
Matches 761; Conservative 0; Mismatches 10;

QY 1 GGCCCCCTGAGAAAGAATCGTGGGGTCAAGAGGCCCGAGAGTGGCTGG 60
Db 1 GGCCCCCTGAGAAAGAATCGTGGGGTCAAGAGGCCCGAGAGTGGCTGG 60
QY 61 CAGGTGAGCTGAGTCACTGAGTCAGTCTCGAGGAGCTCGACCTCG 120
Db 61 CAGGTGAGCTGAGTCACTGAGTCAGTCTCGAGGAGCTCGACCTCG 120
QY 121 CACCCCACTGGCTTCTGAGCCGCGCTGCTGGCTTCTGAGGAGCTCG 180
Db 121 CACCCCACTGGCTTCTGAGCCGCGCTGCTGGCTTCTGAGGAGCTCG 180
QY 181 GCCCTCAGGGTGAAGTGGGAGGAGGAGCTACTACGAGAACCTCTA 240
Db 181 GCCCTCAGGGTGAAGTGGGAGGAGGAGCTACTACGAGAACCTCTA 240

RESULT 7
US-09-598-982C-42
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew^W
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34:06:10:4
CURRENT APPLICATION NUMBER: US/09/598, 982C
PRIORITY FILING DATE: 2000-06-21
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 42
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: CDS
NAME/KEY: (7)..(753)
LOCATION: (7)..(753)

Query Match 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0; Indels 0; Gaps 0;
Matches 761; Conservative 0; Mismatches 10;

QY 241 AGCAGGATCATCTGACCCACAGTTCTACACGCCAGATCGAGGGCATCGCCCTG 300
Db 241 AGCAGGATCATCTGACCCACAGTTCTACACGCCAGATCGAGGGCATCGCCCTG 300
QY 301 CTGGAGCTGAGGCGCTGAGCTCTTCACCGCCAGTCAGCGGACATCGCCCTG 360
Db 301 CTGGAGCTGAGGCGCTGAGCTCTTCACCGCCAGTCAGCGGACATCGCCCTG 360
QY 361 GCCTCAGAGACCTTCCCCGGGATGCCGTGCTGGTCTCGCTGGGCGATGTC 420
Db 361 GCCTCAGAGACCTTCCCCGGGATGCCGTGCTGGTCTCGCTGGGCGATGTC 420
QY 421 ATCATGAGGCCTTCCACCGGATTCCTCTTGAGCAGGTGAAAGTCCATTATGAA 480
Db 421 ATCATGAGGCCTTCCACCGGATTCCTCTTGAGCAGGTGAAAGTCCATTATGAA 480
QY 481 AACACATTGTGAGCAAATTCACCTTGGCTTACAGGAGAGACCTCCGCAATC 540
Db 481 AACACATTGTGAGCAAATTCACCTTGGCTTACAGGAGAGACCTCCGCAATC 540
QY 541 GTCGTGAGCACTTGCTGAGGAAACACCGGAGACTCATGCGAGGACTTC 600
Db 541 GTCGTGAGCACTTGCTGAGGAAACACCGGAGACTCATGCGAGGACTTC 600
QY 601 GGAGGCCCTGTGAGGAAACACCGGAGACTTGCTGAGGAGGACTTC 660
Db 601 GGAGGCCCTGTGAGGAAACACCGGAGACTTGCTGAGGAGGACTTC 660
QY 661 GGGAGGCCCTGGCTCCACCGGCACTTCGCTGAGCAGGTCCCTAATGAA 720
Db 661 GGGAGGCCCTGGCTCCACCGGCACTTCGCTGAGCAGGTCCCTAATGAA 720
QY 721 GACTGGATCACCACATACTCCCAAAGGCGTGAAGGGGGCCCGTGT 771
Db 721 GACTGGATCACCACATACTCCCAAAGGCGTGAAGGGGGCCCGTGT 771

RESULT 7
US-09-598-982C-42
; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew^W
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34:06:10:4
CURRENT APPLICATION NUMBER: US/09/598, 982C
PRIORITY FILING DATE: 2000-06-21
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 42
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: CDS
NAME/KEY: (7)..(753)
LOCATION: (7)..(753)

Query Match 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0; Indels 0; Gaps 0;
Matches 761; Conservative 0; Mismatches 10;

QY 1 GGCCCCCTGAGAAAGAATCGTGGGGTCAAGAGGCCCGAGAGTGGCTGG 60
Db 1 GGCCCCCTGAGAAAGAATCGTGGGGTCAAGAGGCCCGAGAGTGGCTGG 60
QY 61 CAGGTGAGCTGAGTCACTGAGTCAGTCTCGAGGAGCTCGACCTCG 120
Db 61 CAGGTGAGCTGAGTCACTGAGTCAGTCTCGAGGAGCTCGACCTCG 120

Best Local Similarity 98.6%; Pred. No. 0.042; 11; Indels 0; Gaps 0;

Matches 760; Conservative 0; Mismatches 11;

Db 61 CAGGTGAGCCCTGAGAGTCACGCCATACTGGTGCACUTCTCGGGGAGCTCCATC 120
 Qy 121 CACCCCGCAGTGGTGTGACCGCCCGCCGCGCTGCGGGAGCAAGCTGGCT 180
 Db 121 CACCCCGCAGTGGTGTGACCGCCCGCCGCGCTGCGGGAGCAAGCTGGCT 180
 Qy 181 GCCCTCAGGTTGCAACTGCGGGAGCACCTTACTACAGGACAGCTGCGGTC 240
 Db 181 GCCCTCAGGTTGCAACTGCGGGAGCACCTTACTACAGGACAGCTGCGGTC 240
 Qy 241 AGCAGGATCATGTCGACCCACAGTTACACCGCCAGATCGGAGGGACATGCC 300
 Db 241 AGCAGGATCATGTCGACCCACAGTTACACCGCCAGATCGGAGGGACATGCC 300
 Qy 301 CTGGAGCTGGAGGAGCGGTGACCTCTCCAGGACGTCCACACCGTACCCCT 360
 Db 301 CTGGAGCTGGAGGAGCGGTGACCTCTCCAGGACGTCCACACCGTACCCCT 360
 Qy 361 GCCTCAGAGGCTTCCCCGGGAAGCCCTGGTCACTGGTCACTGGGAGCTGGAC 420
 Db 361 GCCTCAGAGGCTTCCCCGGGAAGCCCTGGTCACTGGTCACTGGGAGCTGGAC 420
 Qy 421 AATGATGAGGCTCCACCCCATTCCTCTGAGCAGTGAACTGTCCTCATATGGA 480
 Db 421 AATGATGAGGCTCCACCCCATTCCTCTGAGCAGTGAACTGTCCTCATATGGA 480
 Qy 481 AACACATTTGTAACCAAAATTACCACTGGCTACACGGAGACGAGTCGGCATC 540
 Db 481 AACACATTTGTAACCAAAATTACCACTGGCTACACGGAGACGAGTCGGCATC 540
 Qy 541 GTCCCTGAGGACATGTCGACCCAGGACTCTGGCCAGTACCGGGAGCACTCC 600
 Db 541 GTCCCTGAGGACATGTCGACCCAGGACTCTGGCCAGTACCGGGAGCACTCC 600
 Qy 601 GAGGGCCCTCTGCTGCAAGGTGATGGCACTCTGCTGAGGGCGCTGCGCATC 660
 Db 601 GAGGGCCCTCTGCTGCAAGGTGATGGCACTCTGCTGAGGGCGCTGCGCATC 660
 Qy 661 GCGGAGGGCTGCCCACCGCCCTGGCATCTACCCGGTCACTACTTG 720
 Db 661 GCGGAGGGCTGCCCACCGCCCTGGCATCTACCCGGTCACTACTTG 720
 Qy 721 GACTGGATCCACCACTATGTCGCCAAAAGCGTGAAGCGCGCGGTCT 771
 Db 721 GACTGGATCCACCACTATGTCGCCAAAAGCGTGAAGCGCGCGGTCT 771
 RESULT 8
 US-09-598-982C-24
 ; Sequence 24 Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Frendscho, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506_104
 ; CURRENT APPLICATION NUMBER: US/09598982C
 ; PRIOR APPLICATION NUMBER: 09-079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 24 LENGTH: 771
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE: NAME/KEY: CDS
 ; LOCATION: (7) .. (753)
 ; US-09-598-982C-24
 ; Query Match 97.7%; Score 753.4; DB 1; Length 771;
 ;
 ; SIEQ ID NO 26
 ; SIEQ ID NO 26

RESULT 11
US-09-598-982C-20/c
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20

Query Match 4.2%; Score 32.4; DB 1; Length 771;
Best Local Similarity 46.8%; Pred. No. 17;
Matches 102; Conservative 0; Mismatches 116; Indels 0; Gaps 0;
Matches 102; Conservative 0; Mismatches 116; Indels 0; Gaps 0;

Qy 49 AAGTGGCCCTGGCGAGGTGAGCTGAGAGTCACGGCCATACTGGATGCACTCTGGGG 108
Db 266 AACCTGGGTGACATGATCTCTGGTGACGGCAGAGTCCTTGACGGCAGGGTAGAGGTC 207

Qy 109 GGCTCCCTCATCACCCACCCAGTGGTGTGACCGCCAGCAGCTGGTCTGGAGGGTC 207
Db 206 TCTTCUGCACTTGACCTGGGGCGAGATCTTGACTGTCGGTCTGGAGGGTC 147

Qy 169 AGGATCTGGCCCTCAGGGGCACTGGGGAGGACACTCTACTACCAAGGACAG 228
Db 146 GCGGGGTCAACCCACTGGGGTGTAGGGAGGCCCGCAGAAGTGCATCCAGT 87

Qy 229 CTGCTGGGTGAGGATGATGTCACCCACATT 266
Db 86 GGGCGTGGACTCTGGGTGACCTGGCCAGGGCACTT 49

RESULT 12
US-09-598-982C-36/c
; Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-8

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

Qy 1 GGGCCCTCTGGAGAAAGATGTCGGGGTCAAGGGCCGCCAGGAGAGTGGCCCTCG 60
Db 113 GAGCCCCGGAGAGTGCATTCAGTATGGCCCGTGTGACTCTCAGGTCACTGGAGGS 54

Qy 61 CAGGTGAGGTGAGGTGTCACGGCCATACTGGATGCACTCTGGGGGCTC 113
Db 53 CACTGGCTCTGGGGCCCTCTGACCCCGACGAATCTTCTCGAGGGGCC 1

RESULT 13
US-09-598-982C-8/c
; Sequence 8, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34505.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-8

Query Match 46.8%; Score 32.4; DB 1; Length 771;
Best Local Similarity 46.8%; Pred. No. 17;
Matches 102; Conservative 0; Mismatches 116; Indels 0; Gaps 0;

Qy 109 GGCTCCCTATCCACCCAGTGGTGTGACCCGGCGCGTGGAGCGCGCTGC 168
Db 206 TGCTCCGGAGTTGACCTTGAGGGCGGGCAGATCCTTGACGTCGGTCCACGGCAGC 147

Qy 169 AAGAATCTGGGGCTTCAAGGTGCAACTTGGGAGGACACCTTACTACAGGACAG 228
Db 229 CTGCTGGCTTCAAGGGATCATGTGACCCACAGTT 266

Qy 86 GGGCGTGGACTCTGGGTGACCTGGCCAGGGCACTT 49

RESULT 14
US-09-598-982C-22/c
; Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34505.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; NUMBER OF SEQ ID NOS: 52

Query Match 4.2%; Score 32.4; DB 1; Length 771;

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-22

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCCCCTCGAGAAAGAATCGTCGGGGTCAGGAGGCCAGTGCCTCG 60
Db 113 GAGCCCCCGCAGAGTGTCACTCCAGTATGGCCGGACTCTCACCTCCAGGCC 54

Qy 61 CAGGTGAGCTGAGAGTCCACGCCATACTGTGATGCACTCTCGGGGGCTC 113
Db 53 CACTTGCTCTGAGGGCTCTGACCCGACGATTCTTCAGGGGCC 1

RESULT 15
US-09-598-982C-24/C

; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-24

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCCCCTCGAGAAAGAATCGTCGGGGTCAGGAGGCCAGTGCCTCG 60
Db 113 GAGCCCCCGCAGAGTGTCACTCCAGTATGGCCGGACTCTCACCTCCAGGCC 54

Qy 61 CAGGTGAGCTGAGAGTCCACGCCATACTGTGATGCACTCTCGGGGGCTC 113
Db 53 CACTTGCTCTGAGGGCTCTGACCCGACGATTCTTCAGGGGCC 1

RESULT 15
US-09-598-982C-26

; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-26

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCCCCTCGAGAAAGAATCGTCGGGGTCAGGAGGCCAGTGCCTCG 60
Db 113 GAGCCCCCGCAGAGTGTCACTCCAGTATGGCCGGACTCTCACCTCCAGGCC 54

Qy 61 CAGGTGAGCTGAGAGTCCACGCCATACTGTGATGCACTCTCGGGGGCTC 113
Db 53 CACTTGCTCTGAGGGCTCTGACCCGACGATTCTTCAGGGGCC 1

RESULT 16
US-09-598-982C-26/C

; Sequence 25, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGCCCCCTCGAGAAAGAATCGTCGGGGTCAGGAGGCCAGTGCCTCG 60
Db 113 GAGCCCCCGCAGAGTGTCACTCCAGTATGGCCGGACTCTCACCTCCAGGCC 54

Qy 61 CAGGTGAGCTGAGAGTCCACGCCATACTGTGATGCACTCTCGGGGGCTC 113
Db 53 CACTTGCTCTGAGGGCTCTGACCCGACGATTCTTCAGGGGCC 1

RESULT 18
US-09-598-982C-40/C

; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME

FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-40

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAGATGTCGGGGTCAAGGAGGAGAATGGCCCTGG 60
Db 113 GAGCCCCGGAGAGGCAATCCAGATGGCCGTGACTCTACGCCAGGGC 54

QY 61 CAGGAGGAGCTGAGAGTCCACGCCGCACTACTGAGTGACTCTGGGGGCTC 113
Db 53 CACTCTCTGGGGCTCTGACCCCCGAGATCTTTCGAGGGGCC 1

RESULT 19
US-09-598-982C-42/c

; SEQUENCE 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; PILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-42

Query Match 3.6%; Score 27.6; DB 1; Length 735;
Best Local Similarity 45.4%; Pred. No. 18; Matches 99; Conservative 0; Mismatches 119; Indels 0; Gaps 0;

QY 49 AGTGGCCCTGGGGCTGAGCTTCAACGCCCTACTGGATGCACTCTGGGG 108
Db 248 AACATGGGGTGACGATGATCTCTGAGCCGGAGCTGGTCTGCGGG 189
QY 109 GGCTCCCTATCCACCCCGTGGGGCTGACCCCGGGGCGTGGGACCGAGTC 168
Db 188 TGCTCCGGAGTGCACCGACCTGAGGGCCAGATCTTGAGCTGGCGGCCAGTC 129
QY 169 AAGGATCTGGCCGCCTCAGGGTCAACTGGCGGAGCAGCACCTCTACTACAGGACCG 228
Db 128 GCTGGGTGAGCACCCACTGGGGTGAATGGGGAGGCCCGAGATGCACTCAGT 69
QY 229 CTGGCCGCTCACCGAGTCATGGCCCCCAGTT 266
Db 68 GGCGCTGCACTCTCAGSCTCACCTGCCAGGGCACTT 31

Search completed: August 26, 2005, 12:32:33
Job time : 3.81314 secs

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OM nucleic - nucleic search, using sw model.

Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds
; (without alignments)
4.206 Million cell updates/sec

Title: US-09-598-982C-38
Perfect score: 771
Sequence: 1 gggccctcgagaaagaat.....cgtgagcgccgcgcgtcgt 771

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 10 seqs, 7674 residues

Total number of hits satisfying chosen parameters: 20

Minimum DB seq length: 0
Maximum DB seq length: inf

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

Database : US09598982C_rev.seq: *

RESULT 20
US-09-598-982C-10/c
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark

Score. No. is the number or results predicted by chance to have a printed score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

No.	Score	Match	Length	DB	ID	Description	
1	771	100-0	771	1	US-09-598-982C-38	Sequence 38, Appl	
2	769.4	99-8	771	1	US-09-598-982C-22	Sequence 22, Appl	
3	766.2	99-4	771	1	US-09-598-982C-8	Sequence 8, Appl	
4	761.4	98.8	771	1	US-09-598-982C-36	Sequence 36, Appl	
5	759.8	98.5	771	1	US-09-598-982C-20	Sequence 20, Appl	
6	758.2	98.3	771	1	US-09-598-982C-40	Sequence 40, Appl	
7	758.2	98.3	771	1	US-09-598-982C-42	Sequence 42, Appl	
8	756.6	98.1	771	1	US-09-598-982C-24	Sequence 24, Appl	
9	756.6	98.1	771	1	US-09-598-982C-26	Sequence 26, Appl	
10	730.0	98.1	735	1	US-09-598-982C-10	Sequence 10, Appl	
C	28.2	3-7	771	1	US-09-598-982C-8	Sequence 8, Appl	
C	12	28.2	3-7	771	1	US-09-598-982C-20	Sequence 20, Appl
C	13	28.2	3-7	771	1	US-09-598-982C-22	Sequence 22, Appl
C	14	28.2	3-7	771	1	US-09-598-982C-24	Sequence 24, Appl
C	15	28.2	3-7	771	1	US-09-598-982C-26	Sequence 26, Appl
C	16	28.2	3-7	771	1	US-09-598-982C-30	Sequence 30, Appl
C	17	28.2	3-7	771	1	US-09-598-982C-38	Sequence 38, Appl
C	18	28.2	3-7	771	1	US-09-598-982C-40	Sequence 40, Appl
C	19	28.2	3-7	771	1	US-09-598-982C-42	Sequence 42, Appl
C	20	22.8	3-0	735	1	US-09-598-982C-10	Sequence 10, Appl

SUMMARIES

ALIGNMENTS

```

121 CACCCCAAGTGGTGCTGACCGCAGCAGCAGCTGGGGACCGACGTGAGGACTGGCC 180
181 GGCCTCAAGGTTGAACTCGGGGGAGCAGGACCTTAATCAGGACCAAGCTGCTCCGGTC 240
181 GGCCTCAAGGTTGAACTCGGGGGAGCAGGACCTTAATCAGGACCAAGCTGCTCCGGTC 240
241 AGCAGGATCATGTCACCCACAGTCCTACAGGCCAGATGGAGGGCAATGGCCCTG 300
241 AGCAGGATCATGTCACCCACAGTCCTACAGGCCAGATGGAGGGCAATGGCCCTG 300
301 CTGGAGGTGGAGGAGGGTGAAGTCTCCAGGACGTCCAC2GGTACCCCTGGCCCT 360
301 CTGGAGGTGGAGGAGGGTGAAGTCTCCAGGACGTCCAC2GGTACCCCTGGCCCT 360
361 GCCTCAGGACCTTCCCCCAGGATGCCGCTGGGGTACTGGCTGGGGATGGAC 420
361 GCCTCAGGACCTTCCCCCAGGATGCCGCTGGGGATGGAC 420
361 GCCTCAGGACCTTCCCCCAGGATGCCGCTGGGGATGGAC 420
421 AATGATGAGGCCCTCCACCGCATTCTCTCTGAGCAGGTGAGGTCCCCATATGGAA 480
421 AATGATGAGGCCCTCCACCGCATTCTCTGAGCAGGTGAGGTCCCCATATGGAA 480
481 AACACACATTGTAAGCAAAATTACACCTGGGGCTAACGGAGAGGAGCAGCGCGCATC 540
481 AACACACATTGTAAGCAAAATTACACCTGGGGCTAACGGAGAGGAGCAGCGCGCATC 540
541 GTCGCTGAGGAGCTGCTGTGGGGGACACCGGGAGACTCATGCCAGGGGACTCC 600
541 GTCGCTGAGGAGCTGCTGTGGGGGACACCGGGAGACTCATGCCAGGGGACTCC 600

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```

RESULT 2
US-09-598-982C-22
; Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7) .. (753)
US-09-598-982C-22

Query Match      99.8%; Score 769.4; DB 1; Length 771;
Best Local Similarity 99.9%; Pred. No. 0.037; 1; Indels 0; Gaps 0;
Matches 770; Conservative 0; Mismatches 1;

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1 GGCCCCCTCGAGAAAAGAATCGTGGGGTCAGGGGCCCCXAGGAGCAAGTGCGCCCTCG 60

RESULT 3
US-09-598-982C-8

; Sequence 8, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; TITLE OF INVENTION: AND METHODS OF MAKING SAME

FILE REFERENCE: 34506_104

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: Patentin version 3.3

SEQ ID NO: 8

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

RESULT 4
US-09-598-982C-36

; Sequence 36, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; TITLE OF INVENTION: AND METHODS OF MAKING SAME

FILE REFERENCE: 34506_104

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

SEQUENCE 1

Db 1 GGGCCCTCGAGAAGAAACGGTGGGGTCAGAGGCCCAAGGAGCACTGCGCTG 60

Qy 61 CAGGTAGCCCTGAGACTCCAGGCCATACTGGATCACTTCCTGGCTCATC 120

Db 61 CAGGTAGCTGAGACTCCAGGCCATACTGGATCACTTCCTGGCTCATC 120

Qy 121 CACCCCACTGGTGTGAGCCGCACTTGAGATCACTTCCTGGCTCATC 180

Db 121 CACCCCACTGGTGTGAGCTCCAGGCCATACTGGATCACTTCCTGGCTCATC 180

Qy 181 GCCTCAGGTTCACTGGGAGGCACTTACTACAGGAGCTGAGGAGCTGGCTG 240

Db 181 GCCTCAGGTTCACTGGGAGGCACTTACTACAGGAGCTGAGGAGCTGGCTG 240

Qy 241 AGCAGGATCATCGTGGCACCAAGTCTACACCCAGATGGGAGGAGCTGGCTG 300

Db 241 AGCAGGATCATCGTGGCACCAAGTCTACACCCAGATGGGAGGAGCTGGCTG 300

Qy 301 CTGGACTGGAGAACCCGGTGAACGTTCCAGGTACCGTACCCCT 360

Db 301 CTGGACTGGAGAACCCGGTGAACGTTCCAGGTACCGTACCCCT 360

Qy 361 GCCTCAGAGCTTCCCCGGGATCCGGTGTGGCTGAGGAGCTGGCTG 420

Db 361 GCCTCAGAGCTTCCCCGGGATCCGGTGTGGCTGAGGAGCTGGCTG 420

Qy 421 ATGATGAGCCCTCCACCCGATTCCTGAGGAGGTCCCATATGAA 480

Db 421 ATGATGAGCCCTCCACCCGATTCCTGAGGAGGTCCCATATGAA 480

Qy 481 AACCACTTGTGACCAAATACACCTTGGCTACAGGGAGCAGTCGGCATC 540

Db 481 AACCACTTGTGACCAAATACACCTTGGCTACAGGGAGCAGTCGGCATC 540

Qy 541 GTCCGTGACGAGATCTGTCGGGAGACTCAGCCGGACTCTGGGGACTCC 600

Db 541 GTCCGTGACGAGATCTGTCGGGAGACTCAGCCGGACTCTGGGGACTCC 600

Qy 601 GGAGGGCCCTGGTGTGCAAGGTAATGGCACTGGCTGAGGAGCTGG 660

Db 601 GGAGGGCCCTGGTGTGCAAGGAGCTGGCTGAGGAGCTGG 660

Qy 661 GCGGAGGGCTGGCCAGCACCGGCTGGCATCTACCCGGTACTTG 720

Db 661 GCGGAGGGCTGGCCAGCACCGGCTGGCATCTACCCGGTACTTG 720

Qy 721 GACTGTGACCACTATGCCCCAAAACCGTGAAGGGCCGGCTGT 771

Db 721 GACTGTGACCACTATGCCCCAAAACCGTGAAGGGCCGGCTGT 771

RESULT 3
US-09-598-982C-8

; Sequence 8, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; TITLE OF INVENTION: AND METHODS OF MAKING SAME

FILE REFERENCE: 34506_104

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: Patentin version 3.3

SEQ ID NO: 8

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

RESULT 4
US-09-598-982C-36

; Sequence 36, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; TITLE OF INVENTION: AND METHODS OF MAKING SAME

FILE REFERENCE: 34506_104

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

SEQUENCE 1

Db 1 GGGCCCTCGAGAAGAAACGGTGGGGTCAGAGGCCCAAGGAGCACTGCGCTG 60

Qy 61 CAGGTAGCTGAGCTCCAGGCCATACTGGATCACTTCCTGGCTCATC 120

Db 61 CAGGTAGCTGAGCTCCAGGCCATACTGGATCACTTCCTGGCTCATC 120

Qy 121 CACCCCACTGGTGTGAGACTCCAGGCCATACTGGATCACTTCCTGGCTCATC 180

Db 121 CACCCCACTGGTGTGAGCTCCAGGCCATACTGGATCACTTCCTGGCTCATC 180

Qy 181 GCCTCAGGTTCACTGGGAGGCACTTACTACAGGAGCTGAGGAGCTGGCTG 240

Db 181 GCCTCAGGTTCACTGGGAGGCACTTACTACAGGAGCTGAGGAGCTGGCTG 240

Qy 241 AGCAGGATCATCGTGGCACCAAGTCTACACCCAGATGGGAGGAGCTGGCTG 300

Db 241 AGCAGGATCATCGTGGCACCAAGTCTACACCCAGATGGGAGGAGCTGGCTG 300

Qy 301 CTGGACTGGAGAACCCGGTGAACGTTCCAGGTACCGTACCCCT 360

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Qy 361 GCCTCAGAGCTTCCCCGGGATCCGGTGTGGCTGAGGAGCTGGCTG 420

Db 361 GCCTCAGAGCTTCCCCGGGATCCGGTGTGGCTGAGGAGCTGGCTG 420

Qy 421 ATGATGAGCCCTCCACCCGATTCCTGAGGAGGTCCCATATGAA 480

Db 421 ATGATGAGCCCTCCACCCGATTCCTGAGGAGGTCCCATATGAA 480

Qy 481 AACCACTTGTGACCAAATACACCTTGGCTACAGGGAGCAGTCGGCATC 540

Db 481 AACCACTTGTGACCAAATACACCTTGGCTACAGGGAGCAGTCGGCATC 540

Qy 541 GTCCGTGACGAGATCTGTCGGGAGACTCAGCCGGACTCTGGGGACTCC 600

Db 541 GTCCGTGACGAGATCTGTCGGGAGACTCAGCCGGACTCTGGGGACTCC 600

Qy 601 GGAGGGCCCTGGTGTGCAAGGTAATGGCACTGGCTGAGGAGCTGG 660

Db 601 GGAGGGCCCTGGTGTGCAAGGAGCTGGCTGAGGAGCTGG 660

Qy 661 GCGGAGGGCTGGCCAGCACCGGCTGGCATCTACCCGGTACTTG 720

Db 661 GCGGAGGGCTGGCCAGCACCGGCTGGCATCTACCCGGTACTTG 720

Qy 721 GACTGTGACCACTATGCCCCAAAACCGTGAAGGGCCGGCTGT 771

Db 721 GACTGTGACCACTATGCCCCAAAACCGTGAAGGGCCGGCTGT 771

RESULT 3
US-09-598-982C-8

; Sequence 8, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; TITLE OF INVENTION: AND METHODS OF MAKING SAME

FILE REFERENCE: 34506_104

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: Patentin version 3.3

SEQ ID NO: 8

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

RESULT 4
US-09-598-982C-36

; Sequence 36, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; TITLE OF INVENTION: AND METHODS OF MAKING SAME

FILE REFERENCE: 34506_104

CURRENT APPLICATION NUMBER: US/09/598, 982C

CURRENT FILING DATE: 2000-06-21

SEQUENCE 1

Db 1 GGGCCCTCGAGAAGAAACGGTGGGGTCAGAGGCCCAAGGAGCACTGCGCTG 60

Qy 61 CAGGTAGCTGAGCTCCAGGCCATACTGGATCACTTCCTGGCTCATC 120

Db 61 CAGGTAGCTGAGCTCCAGGCCATACTGGATCACTTCCTGGCTCATC 120

Qy 121 CACCCCACTGGTGTGAGACTCCAGGCCATACTGGATCACTTCCTGGCTCATC 180

Db 121 CACCCCACTGGTGTGAGCTCCAGGCCATACTGGATCACTTCCTGGCTCATC 180

Qy 181 GCCTCAGGTTCACTGGGAGGCACTTACTACAGGAGCTGAGGAGCTGGCTG 240

Db 181 GCCTCAGGTTCACTGGGAGGCACTTACTACAGGAGCTGAGGAGCTGGCTG 240

Qy 241 AGCAGGATCATCGTGGCACCAAGTCTACACCCAGATGGGAGGAGCTGGCTG 300

Db 241 AGCAGGATCATCGTGGCACCAAGTCTACACCCAGATGGGAGGAGCTGGCTG 300

Qy 301 CTGGACTGGAGAACCCGGTGAACGTTCCAGGTACCGTACCCCT 360

Db 301 CTGGACTGGAGAACCCGGTGAACGTTCCAGGTACCGTACCCCT 360

Qy 361 GCCTCAGAGCTTCCCCGGGATCCGGTGTGGCTGAGGAGCTGGCTG 420

Db 361 GCCTCAGAGCTTCCCCGGGATCCGGTGTGGCTGAGGAGCTGGCTG 420

Qy 421 ATGATGAGCCCTCCACCCGATTCCTGAGGAGGTCCCATATGAA 480

Db 421 ATGATGAGCCCTCCACCCGATTCCTGAGGAGGTCCCATATGAA 480

Qy 481 AACCACTTGTGACCAAATACACCTTGGCTACAGGGAGCAGTCGGCATC 540

Db 481 AACCACTTGTGACCAAATACACCTTGGCTACAGGGAGCAGTCGGCATC 540

Qy 541 GTCCGTGACGAGATCTGTCGGGAGACTCAGCCGGACTCTGGGGACTCC 600

Db 541 GTCCGTGACGAGATCTGTCGGGAGACTCAGCCGGACTCTGGGGACTCC 600

Qy 601 GGAGGGCCCTGGTGTGCAAGGTAATGGCACTGGCTGAGGAGCTGG 660

Db 601 GGAGGGCCCTGGTGTGCAAGGAGCTGGCTGAGGAGCTGG 660

Qy 661 GCGGAGGGCTGGCCAGCACCGGCTGGCATCTACCCGGTACTTG 720

Db 661 GCGGAGGGCTGGCCAGCACCGGCTGGCATCTACCCGGTACTTG 720

Qy 721 GACTGTGACCACTATGCCCCAAAACCGTGAAGGGCCGGCTGT 771

Db 721 GACTGTGACCACTATGCCCCAAAACCGTGAAGGGCCGGCTGT 771

PRIOR APPLICATION NUMBER: 09/079, 970
 PRIORITY FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 36
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: CDS
 NAME/KEY: CDS
 LOCATION: (17)..(753)
 US-09-988-982C-36

Query Match 98.8%; Score 761.4; DB 1; Length 771;
 Best Local Similarity 99.2%; Pred. No. 0;4; Mismatches 0; Indels 0; Gaps 0;
 Matches 765; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
 Qy 1 GGCCCCCTCGAGAAAGAATGCTGGGCTCAAGGCCCATACTGTAGTCACGCCATTACTGAGTCAGTCACTCTGGGGCTCCATC 60
 Db 61 CAGSTGAGCTTGAGTCACGCCATTACTGAGTCAGTCACTCTGGGGCTCCATC 120
 Qy 61 CAGSTGAGCTTGAGTCACGCCATTACTGAGTCAGTCACTCTGGGGCTCCATC 120
 Db 121 CACCCCACTGGGCTGACGCCAGCTGCTGGGACGGAGTCAGGAGTCACGCC 180
 Db 121 CACCCCACTGGGCTGACGCCAGCTGCTGGGACGGAGTCAGGAGTCACGCC 180
 Qy 181 GCCTCAGGGTGAACTSGGGAGCAGACCTCTAACCTACAGGAGAACCTGCTGCCTC 240
 Db 181 GCCTCAGGGTGAACTSGGGAGCAGACCTCTAACCTACAGGAGAACCTGCTGCCTC 240
 Qy 241 AGCAGGATCATCTGACCCACAGTCTCACCCAGATCGAGGCCAAATGGGCTG 300
 Db 241 AGCAGGATCATCTGACCCACAGTCTCACCCAGATCGAGGCCAAATGGGCTG 300
 Qy 301 CTGGAGCTGGAGGAGGCCGCTGAAAGTCTCAGGACAGTCACACGGTCAACCCCT 360
 Db 301 CTGGAGCTGGAGGAGGCCGCTGAAAGTCTCAGGACAGTCACACGGTCAACCCCT 360
 Qy 361 GCCTCAGGACCTTCCCCGGGAGATGGCGTGTGGGTCACGGGCACTGGGAC 420
 Db 361 GCCTCAGGACCTTCCCCGGGAGATGGCGTGTGGGTCACGGGCACTGGGAC 420
 Qy 421 ATATATAGGGCCCTCCACCGGATTTCTCTGGAGCAGGTGAAGTCCATATGGAA 480
 Db 421 ATATATAGGGCCCTCCACCGGATTTCTCTGGAGCAGGTGAAGTCCATATGGAA 480
 Qy 421 AACATGAGGCCCTCCACCGGATTTCTCTGGAGCAGGTGAAGTCCATATGGAA 480
 Db 421 AACATGAGGCCCTCCACCGGATTTCTCTGGAGCAGGTGAAGTCCATATGGAA 480
 Qy 481 AACCATATTGTAAGCAAAATACACCTTGCGGCTACGGGAGGAGCTGCGCAGTC 540
 Db 481 AACCATATTGTAAGCAAAATACACCTTGCGGCTACGGGAGGAGCTGCGCAGTC 540
 Qy 541 GTCTGGAGGACATGCTGGTGGAGGAGACCCGGAGGAGCTATGCCAGGACTCC 600
 Db 541 GTCTGGAGGACATGCTGGTGGAGGAGACCCGGAGGAGCTATGCCAGGACTCC 600
 Qy 601 GGAGGCCCTGTGTCAGGGATGCGACCTGCTCGAGGCCGCTGGTAGCTG 660
 Db 601 GGAGGCCCTGTGTCAGGGATGCGACCTGCTCGAGGCCGCTGGTAGCTG 660
 Qy 601 GGAGGCCCTGTGTCAGGGATGCGACCTGCTCGAGGCCGCTGGTAGCTG 660
 Db 661 GGCGAGGGTGTGCCAGGCCAACGGGCTGGCATCTACCGGTGCACTACTTG 720
 Db 661 GGCGAGGGTGTGCCAGGCCAACGGGCTGGCATCTACCGGTGCACTACTTG 720
 Qy 721 GACTGATGCACTATGCCCCAAAAGCCGTAAGCGGGCCGCGTGT 771
 Db 721 GACTGATGCACTATGCCCCAAAAGCCGTAAGCGGGCCGCGTGT 771

GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 APPLICANT: Haak-Friedebo, Marly
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 FILE REFERENCE: 3456.104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIOR APPLICATION NUMBER: 09/079, 970
 PRIOR FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 20
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: CDS
 NAME/KEY: CDS
 LOCATION: (17)..(753)
 US-09-988-982C-20

Query Match 98.5%; Score 759.8; DB 1; Length 771;
 Best Local Similarity 99.1%; Pred. No. 0;41; Mismatches 7; Indels 0; Gaps 0;
 Matches 764; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
 Qy 1 GGCCCCCTCGAGAAAGAATGCTGGGAGTCAGGAGTCACGCC 60
 Db 1 GGCCCCCTCGAGAAAGAATGCTGGGAGTCAGGAGTCACGCC 60
 Qy 61 CAGGTGACCTGAGAGTCACGCCAATACTGATGTCCTCTGGGCTCCATC 120
 Db 61 CAGGTGACCTGAGAGTCACGCCAATACTGATGTCCTCTGGGCTCCATC 120
 Qy 121 CACCCCACTGGGCTGACGCCAGCTGCTGGGACGGAGTCAGGAGTCACGCC 180
 Db 121 CACCCCACTGGGCTGACGCCAGCTGCTGGGACGGAGTCAGGAGTCACGCC 180
 Qy 181 GCCTCAGGGTGAACTSGGGAGCAGACCTCTAACCTACAGGAGAACCTGCTGCCTC 240
 Db 181 GCCTCAGGGTGAACTSGGGAGCAGACCTCTAACCTACAGGAGAACCTGCTGCCTC 240
 Qy 241 AGCAGGATCATCTGACCCACAGTCTCACCCAGATCGAGGCCAAATGGGCTG 300
 Db 241 AGCAGGATCATCTGACCCACAGTCTCACCCAGATCGAGGCCAAATGGGCTG 300
 Qy 301 CTGGAGCTGGAGGAGGCCGCTGAAAGTCTCAGGACAGTCACACGGTCAACCCCT 360
 Db 301 CTGGAGCTGGAGGAGGCCGCTGAAAGTCTCAGGACAGTCACACGGTCAACCCCT 360
 Qy 361 GCCTCAGGACCTTCCCCGGGAGATGGCGTGTGGGTCACGGGCACTGGGAC 420
 Db 361 GCCTCAGGACCTTCCCCGGGAGATGGCGTGTGGGTCACGGGCACTGGGAC 420
 Qy 421 ATATATAGGGCCCTCCACCGGATTTCTCTGGAGCAGGTGAAGTCCATATGGAA 480
 Db 421 ATATATAGGGCCCTCCACCGGATTTCTCTGGAGCAGGTGAAGTCCATATGGAA 480
 Qy 481 AACATGAGGCCCTCCACCGGATTTCTCTGGAGCAGGTGAAGTCCATATGGAA 480
 Db 481 AACATGAGGCCCTCCACCGGATTTCTCTGGAGCAGGTGAAGTCCATATGGAA 480
 Qy 541 AACCATATTGTAAGCAAAATACACCTTGCGGCTACGGGAGGAGCTGCGCAGTC 540
 Db 541 AACCATATTGTAAGCAAAATACACCTTGCGGCTACGGGAGGAGCTGCGCAGTC 540
 Qy 601 GGAGGCCCTGTGTCAGGGATGCGACCTGCTCGAGGCCGCTGGTAGCTG 660
 Db 601 GGAGGCCCTGTGTCAGGGATGCGACCTGCTCGAGGCCGCTGGTAGCTG 660
 Qy 661 GGAGGCCCTGTGTCAGGGATGCGACCTGCTCGAGGCCGCTGGTAGCTG 660
 Db 661 GGAGGCCCTGTGTCAGGGATGCGACCTGCTCGAGGCCGCTGGTAGCTG 660
 Qy 721 GACTGATGCACTATGCCCCAAAAGCCGTAAGCGGGCCGCGTGT 771
 Db 721 GACTGATGCACTATGCCCCAAAAGCCGTAAGCGGGCCGCGTGT 771

RESULT 5
 US-09-988-982C-20

; Sequence 20, Application US/09/598,982C

RESULT 8
US-09-598-982C-24
; Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffit, Mark
; APPLICANT: Haak-Fredericks, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIORITY FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (71)..(753)
; US-09-598-982C-24

Query Match 98.1%; Score 756.6; DB 1; length 771;
Best Local Similarity 98.8%; Pred. No. 0.042;
Matches 762; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 1 GGCCCCCTTGAGAAAGAATGTRGGGGGTCAAGGGCCCGAGAATGCCCTGG 60
Db 1 GGCCCCCTTGAGAAAGAATGTRGGGGGTCAAGGGCCCGAGAATGCCCTGG 60

Qy 61 CAGGTGAGCTGAGTCACGGCCCATACTGAGTCACTCTGGGGCTCTCATC 120
Db 61 CAGGTGAGCTGAGTCACGGCCCATACTGAGTCACTCTGGGGCTCTCATC 120

Qy 121 CACCCCACTGGGTGCTGACCGGAGCTGCTGGGACGCTGAGGCTGCC 180
Db 121 CACCCCACTGGGTGCTGACCGGAGCTGCTGGGACGCTGAGGCTGCC 180

Qy 181 GCCTCAGGTGCACTGGGACGCTGCTGGGACGCTGAGGCTGCC 240
Db 181 GCCTCAGGTGCACTGGGACGCTGCTGGGACGCTGAGGCTGCC 240

Qy 241 AGCGGATCATCTGCACCACTGTCACCCGCCAGTCAGGAGCCATGGCTG 300
Db 241 AGCGGATCATCTGCACCACTGTCACCCGCCAGTCAGGAGCCATGGCTG 300

RESULT 9
US-09-598-982C-26
; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffit, Mark
; APPLICANT: Haak-Fredericks, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIORITY FILING DATE: 1998-04-15
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (71)..(753)
; US-09-598-982C-26

Query Match 98.1%; Score 756.6; DB 1; length 771;
Best Local Similarity 98.8%; Pred. No. 0.042;
Matches 762; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 1 GGCCCCCTTGAGAAAGAATGTRGGGGGTCAAGGGCCCGAGAATGCCCTGG 60
Db 1 GGCCCCCTTGAGAAAGAATGTRGGGGGTCAAGGGCCCGAGAATGCCCTGG 60

Qy 61 CAGGTGAGCTGAGTCACGGCCCATACTGAGTCACTCTGGGGCTCTCATC 120
Db 61 CAGGTGAGCTGAGTCACGGCCCATACTGAGTCACTCTGGGGCTCTCATC 120

Qy 121 CACCCCACTGGGTGCTGACCGGAGCTGCTGGGACGCTGAGGCTGCC 180
Db 121 CACCCCACTGGGTGCTGACCGGAGCTGCTGGGACGCTGAGGCTGCC 180

Qy 181 GCCTCAGGTGCACTGGGACGCTGCTGGGACGCTGAGGCTGCC 240
Db 181 GCCTCAGGTGCACTGGGACGCTGCTGGGACGCTGAGGCTGCC 240

Qy 241 AGCGGATCATCTGCACCACTGTCACCCGCCAGTCAGGAGCCATGGCTG 300
Db 241 AGCGGATCATCTGCACCACTGTCACCCGCCAGTCAGGAGCCATGGCTG 300

Qy 301 CTGGAGCTGGAGGCCGGTGAACGTCCTCACAGGGTCAAGGTGCCCTGGCCCT 360
Db 301 CTGGAGCTGGAGGCCGGTGAACGTCCTCACAGGGTCAAGGTGCCCTGGCCCT 360

Qy 361 GCCTCAGAGACCTTCCCCCGGGATGCGCTGCTGGGACTCTGGCTGGGATGTGAC 420
Db 361 GCCTCAGAGACCTTCCCCCGGGATGCGCTGCTGGGACTCTGGCTGGGATGTGAC 420

Qy 421 AATGATGGGGCTCCCGCGATTCTCTGAAGGGTGAAGGTTCAATGGA 480
Db 421 AATGATGGGGCTCCCGCGATTCTCTGAAGGGTGAAGGTTCAATGGA 480

Qy 601 GGCGGAGCTGTCGGCAACCGGGAGGACTATSCAGGAGGACTCC 600
Db 601 GGCGGAGCTGTCGGCAACCGGGAGGACTATSCAGGAGGACTCC 600

Qy 661 GGCGAGGGCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600
Db 661 GGCGAGGGCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600

Qy 601 GGGAGGCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600
Db 601 GGGAGGCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600

Qy 481 AACCACATTGTCAGGCAAATAACCTTGGGGCTAACGGGAGACGGCTCCATC 540
Db 481 AACCACATTGTCAGGCAAATAACCTTGGGGCTAACGGGAGACGGCTCCATC 540

Qy 541 GTCGTGAGGACATGCTGTCAGGTTCACTGGCTTACGGGAGGACTATGCCA 600
Db 541 GTCGTGAGGACATGCTGTCAGGTTCACTGGCTTACGGGAGGACTATGCCA 600

Qy 601 GAGGGCCCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600
Db 601 GAGGGCCCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600

Qy 721 GACTGGATCACCCTATGCCCCAAAAGCCCTGAGGGGGCCCTGGT 771
Db 721 GACTGGATCACCCTATGCCCCAAAAGCCCTGAGGGGGCCCTGGT 771

Qy 661 GGCGAGGGCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600
Db 661 GGCGAGGGCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600

Qy 541 GTCGTGAGGACATGCTGTCAGGTTCACTGGCTTACGGGAGGACTATGCCA 600
Db 541 GTCGTGAGGACATGCTGTCAGGTTCACTGGCTTACGGGAGGACTATGCCA 600

Qy 601 GAGGGCCCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600
Db 601 GAGGGCCCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600

Qy 661 GGCGAGGGCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600
Db 661 GGCGAGGGCTGCGCCAGGCAACGGGCTGGGACTATGCCAAGGAGCCC 600

Qy 721 GACTGGATCACCCTATGCCCCAAAAGCCCTGAGGGGGCCCTGGT 771
Db 721 GACTGGATCACCCTATGCCCCAAAAGCCCTGAGGGGGCCCTGGT 771

QY 181 GCCTCTAGGGTCAAATTCGGGAGGAGCACTTAATTACCGGACAGCTCTGGGTC 240
Db 181 GGCCTCTAGGGTCAAATTCGGGAGGAGCACTTAATTACCGGACAGCTCTGGGTC 240
QY 241 AGCAGGATCATGTGACCCAGTTCACCGGCCAGATCGGACGGCATCGGCCCTG 300
Db 241 AGCAGGATCATGTGACCCAGTTCACCGGCCAGATCGGACGGCATCGGCCCTG 300
QY 301 CTGGAGTGGAGGAGGGTGAACGRTTCCAGGAACTTACCGGACAGCTTGCGTC 360
Db 301 CTGGAGTGGAGGAGGGTGAACGRTTCCAGGAACTTACCGGACAGCTTGCGTC 360
QY 361 GCCTCTAGGACTTCCCCGGGAGCCGGCTGSGTCACTGGGAGATGGGAC 420
Db 361 GCCTCTAGGACTTCCCCGGGAGCCGGCTGSGTCACTGGGAGATGGGAC 420
QY 421 ATATGATAGGCCTCCACCGCATTTCTCTGAAAGGGTGAAGGTCACCTGGAC 480
Db 421 ATATGATAGGCCTCCACCGCATTTCTCTGAAAGGGTGAAGGTCACCTGGAC 480
QY 421 ATATGATAGGCCTCCACCGCATTTCTCTGAAAGGGTGAAGGTCACCTGGAC 480
Db 421 ATATGATAGGCCTCCACCGCATTTCTCTGAAAGGGTGAAGGTCACCTGGAC 480
QY 481 AACACATTTGAGGAAATACCACTTGGGCACTACGGGAGGAGCTCCATC 540
Db 481 AACACATTTGAGGAAATACCACTTGGGCACTACGGGAGGAGCTCCATC 540
QY 541 GTCGGTCAAGGAGATGCTGTCGGGCACTTCTGAAAGGGTGAAGGTCACCTGG 600
Db 541 GTCGGTCAAGGAGATGCTGTCGGGCACTTCTGAAAGGGTGAAGGTCACCTGG 600
QY 601 GAGGGCCCTGGTGTCAAGGGTGAATGCGCACGGGGGTGTGTACCTGG 660
Db 601 GAGGGCCCTGGTGTCAAGGGTGAATGCGCACGGGGGTGTGTACCTGG 660
QY 661 GCGGAGACTGAGCCACGGGCTGGTGTGTACCTGG 720
Db 661 GCGGAGACTGAGCCACGGGCTGGTGTGTACCTGG 720
QY 721 GAGTGTGATCACCAGTGTCCAAAGGCGTGANAGGGGGCGCTGT 771
Db 721 GAGTGTGATCACCAGTGTCCAAAGGCGTGANAGGGGGCGCTGT 771

RESULT 10
US-09-598-982C-10
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIORITY APPLICATION NUMBER: 09/073, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (1)..(735)
; US-09-598-982C-10

QY 79 CAAGGGCATTAOTGGGACTCTGGGGGGCTCCCTACCCCGTGGGTC 138
Db 61 CAAGGGCATTAOTGGGACTCTGGGGGGCTCCCTACCCCGTGGGTC 120
QY 139 ACCGGAGGGACTGGGACCGGAGCTAAGGACTGGCCCTCAAGGTGACTG 198
Db 121 ACCGGAGGGACTGGGACCGGAGCTAAGGACTGGCCCTCAAGGTGACTG 180
QY 199 CGGGAGGACTCTAACCAAGGACAGCTGCGCCGTCAGGATCATGGTGCAC 258
Db 181 CGGGAGGACTCTAACCAAGGACAGCTGCGCCGTCAGGATCATGGTGCAC 240
QY 259 CCACAGTCTAACCCCGGAGTGGGCAATGGCCCTGTGAGGTGGAGGCC 318
Db 241 CCACAGTCTAACCCCGGAGTGGGCAATGGCCCTGTGAGGTGGAGGCC 300
QY 319 GTGAAAGCTCTCAGGACGTCACAGGTCACCCGGCCCTGCTCAGGACCTCCCC 378
Db 301 GTGAAAGCTCTCAGGACGTCACAGGTCACCCGGCCCTGCTCAGGACCTCCCC 360
QY 379 CGGGAGATGCGTGGGGCACTGCTGGGATGTCACATGATGAGGCGCTCCA 438
Db 421 CGGGAGATGCGTGGGGCACTGCTGGGATGTCACATGATGAGGCGCTCCA 420
QY 499 AAATACCACTTGGGCCCTACAGGGAGGAGCACTGGGAGATGGAAACACATTTGACCA 558
Db 481 AAATACCACTTGGGCCCTACAGGGAGGAGCACTGGGAGATGGAAACACATTTGACCA 540
QY 559 TGTGCCGGAAACCCGGAGGGACTCATGGCAGGGGACTCCGGAGGGGCCCTGTGTC 618
Db 541 TGTGCCGGAAACCCGGAGGGACTCATGGCAGGGGACTCCGGAGGGGCCCTGTGTC 600
QY 619 ARGGTGAATGGGACCTCTGGCAGGGGGCTGGTCACTGGGAGGGCTGG 678
Db 601 ARGGTGAATGGGACCTCTGGCAGGGGGCTGGTCACTGGGAGGGCTGG 660
QY 679 CCAACCGGCCCTGGCATCTAACCCGGTCACTACTACTGGGAGGGCTGTCCCAG 738
Db 661 CCAACCGGCCCTGGCATCTAACCCGGTCACTACTACTGGGAGGGCTGG 720
QY 739 GTCCCCAAAGCCG 753
Db 721 GTCCCCAAAGCCG 735

RESULT 11
US-09-598-982C-8/C
; Sequence 8, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIORITY APPLICATION NUMBER: 09/073, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (1)..(771)
; US-09-598-982C-10

QY 19 ATGGTGGGGGTGAGGGCCCCCAGGAGCAAGTGGCCCTGGAGCTGAGAAGTC 78

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; LOCATION: (7)..(753)
; US-09-598-982C-8
Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
; LOCATION: (7)..(753)
; US-09-598-982C-22
Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
; NAME/KEY: CDS
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20
RESULT 12
US-09-598-982C-20/c
Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20
Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
; LOCATION: (7)..(753)
; US-09-598-982C-24
Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
; NAME/KEY: CDS
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-24
RESULT 13
US-09-598-982C-22/c
Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 22
; LENGTH: 771
; TYPE: DNA
; US-09-598-982C-22
RESULT 14
US-09-598-982C-24/c
Sequence 24, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 24
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-24
RESULT 15
US-09-598-982C-26/c
Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; US-09-598-982C-26

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; SEQ ID NO: 25
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-26

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0;保守性 60; Indels 0; Gaps 0; Matches 60; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAGATGTCGGGGTCAAGGAGCAAGTGCCTGG 60
Db 113 GAGCCCCGGCAAGTGCAATCCAGTAGGCGGTGACTCGAGGCTC 54
QY 61 CAGGTAGGCCAGAGTCAGGCTCACGGCCATACTGGATGACTCTGCGGGGCTC 113
Db 53 CACTGCTCCGGGCTCTGACCCCCGAGATCTTCTCGAGGGGCC 1

RESULT 16
US-09-598-982C-36/c

Sequence 36, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIORITY NUMBER: 09/079, 970
PRIORITY FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 36
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0;保守性 60; Indels 0; Gaps 0; Matches 60; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAGATGTCGGGGTCAAGGAGCAAGTGCCTGG 60
Db 113 GAGCCCCGGCAAGTGCAATCCAGTAGGCGGTGACTCGAGGCTC 54
QY 61 CAGGTAGGCCAGAGTCAGGCTCACGGCCATACTGGATGACTCTGCGGGGCTC 113
Db 53 CACTGCTCCGGGCTCTGACCCCCGAGATCTTCTCGAGGGGCC 1

RESULT 17
US-09-598-982C-36/c

Sequence 36, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIORITY NUMBER: 09/079, 970
PRIORITY FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 40
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0;保守性 60; Indels 0; Gaps 0; Matches 60; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAGATGTCGGGGTCAAGGAGCAAGTGCCTGG 60
Db 113 GAGCCCCGGCAAGTGCAATCCAGTAGGCGGTGACTCGAGGCTC 54
QY 61 CAGGTAGGCCAGAGTCAGGCTCACGGCCATACTGGATGACTCTGCGGGGCTC 113
Db 53 CACTGCTCCGGGCTCTGACCCCCGAGATCTTCTCGAGGGGCC 1

RESULT 17
US-09-598-982C-38/c

Sequence 38, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIORITY NUMBER: 09/079, 970

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0;保守性 60; Indels 0; Gaps 0; Matches 60; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAGATGTCGGGGTCAAGGAGCAAGTGCCTGG 60
Db 113 GAGCCCCGGCAAGTGCAATCCAGTAGGCGGTGACTCGAGGCTC 54
QY 61 CAGGTAGGCCAGAGTCAGGCTCACGGCCATACTGGATGACTCTGCGGGGCTC 113
Db 53 CACTGCTCCGGGCTCTGACCCCCGAGATCTTCTCGAGGGGCC 1

RESULT 19
US-09-598-982C-42/c

Sequence 42, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIORITY NUMBER: 09/079, 970

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0;保守性 60; Indels 0; Gaps 0; Matches 60; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAGATGTCGGGGTCAAGGAGCAAGTGCCTGG 60
Db 113 GAGCCCCGGCAAGTGCAATCCAGTAGGCGGTGACTCGAGGCTC 54
QY 61 CAGGTAGGCCAGAGTCAGGCTCACGGCCATACTGGATGACTCTGCGGGGCTC 113
Db 53 CACTGCTCCGGGCTCTGACCCCCGAGATCTTCTCGAGGGGCC 1

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CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (71) .. (753)
; US-09-598-982C-42

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; Indels 53; Gaps 0;
Matches 60; Conservative 0; Mismatches 0; Indels 53; Gaps 0;

QY 1 GGCCCCCTCGAGAAAGAATCGTGGGGTCAGAGGCCAGGAGTCGGCTCG 60
Db 113 GACCCCGCCAGAAGTGCACTCCGATGGCCAGACTCTGAGCTACCCAGGCC 54

QY 61 CACTGTAGGCTGAGAGTCCACGGCCATACTGATGACTCTCGGGAGGCTC 113
Db 53 CACTTGCTCTGAGGGCTCTGAACCCCGACGAACTCTCTGAGGGGCC 1

RESULT 20
US-09-598-982C-10/c

; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haeck-Friedschio, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
; US-09-598-982C-10

Query Match 3.0%; Score 22.8; DB 1; Length 735;
Best Local Similarity 44.0%; Pred. No. 18; Mismatches 96; Indels 0; Gaps 0;
Matches 96; Conservative 0; Mismatches 122; Indels 0; Gaps 0;

QY 49 AACGGCCCTGGAGGTGGCTGAGGCGCAAGGCCATACCTGGATGCACCTCTGGGG 108
Db 248 AACGGCCCTGGAGGTGGCTGAGGCGCAAGGCCATACCTGGATGCACCTCTGGGG 189

QY 109 GGTCCTCATCCACCCCAAGTGGTGTGACCGCAGCCACTGGGACGGACGTC 168
Db 188 TGTCCCGAGTCACCCGAGCCAGGCTGACGTTGACGTTGACGTTGACGTTGACGTC 129

QY 169 AACGATCTGGCCACCTCAGGTCAACTGGGATGAGGAGGCCGGAGAGTCAGPAT 228
Db 128 GCTCCGGTCAGCACCACTGGGATGAGGAGGCCGGAGAGTCAGPAT 69

RESULT 1
US-09-598-982C-40
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew

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GenCore version 5.1.6

Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds
; (without alignments) 4.206 Million cell updates/sec

Title: US-09-598-982C-40
Perfect score: 771
Sequence: 1 gggccctcgagaaagaat.....cgtgaagcggccgcgtgt 771

Scoring table: IDENTITY_NUC Gapext 10.0 , Gapext 0.5

Searched: 10 seqs, 7674 residues

Total number of hits satisfying chosen parameters: 20

Minimum DB seq length: 0
Maximum DB seq length: inf

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

Database : US09598982C_rev.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	771	100.0	771	1	US-09-598-982C-40	Sequence 40, Appl
2	769.4	99.8	771	1	US-09-598-982C-24	Sequence 24, Appl
3	765.2	99.4	771	1	US-09-598-982C-42	Sequence 42, Appl
4	764.6	99.2	771	1	US-09-598-982C-26	Sequence 26, Appl
5	759.8	98.5	771	1	US-09-598-982C-8	Sequence 8, Appl
6	758.2	98.3	771	1	US-09-598-982C-38	Sequence 38, Appl
7	755.6	98.1	771	1	US-09-598-982C-22	Sequence 22, Appl
8	755.6	97.9	771	1	US-09-598-982C-36	Sequence 36, Appl
9	753.4	97.7	771	1	US-09-598-982C-20	Sequence 20, Appl
10	723.8	93.9	735	1	US-09-598-982C-10	Sequence 10, Appl
11	723.8	93.7	771	1	US-09-598-982C-8	Sequence 8, Appl
12	28.2	3.7	771	1	US-09-598-982C-20	Sequence 20, Appl
13	28.2	3.7	771	1	US-09-598-982C-22	Sequence 22, Appl
14	28.2	3.7	771	1	US-09-598-982C-24	Sequence 24, Appl
15	28.2	3.7	771	1	US-09-598-982C-26	Sequence 25, Appl
16	28.2	3.7	771	1	US-09-598-982C-36	Sequence 36, Appl
17	28.2	3.7	771	1	US-09-598-982C-38	Sequence 38, Appl
18	28.2	3.7	771	1	US-09-598-982C-40	Sequence 40, Appl
19	28.2	3.7	771	1	US-09-598-982C-42	Sequence 42, Appl
20	25.6	3.3	735	1	US-09-598-982C-10	Sequence 10, Appl

ALIGNMENTS

RESULT 3
US-09-598-982C-42
Sequence 42, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Fredschö, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34:06.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIORITY APPLICATION NUMBER: 09/079, 970
PRIORITY FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: Patentin version 3.3
SEQ ID NO: 42
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: CDS
NAME/KEY: CDS
LOCATION: (7) . . (753)
US-09-598-982C-42

Query Match 99.4%; Score 766.2; DB 1; Length 771;
Best Local Similarity 99.6%; Pred. No. 0.038; 0; Mismatches 3; Indels 0; Gaps 0;
Matches 768; Conservative 0;

QY 1 GGCCCCCTCGAGAAGAAAGATGCTGGGGGTAGAGGGCCCAAGAGCAAGTGCCTCG 60
DB 1 GGCCCCCTCGAGAAGAAAGATGCTGGGGGTAGAGGGCCCAAGAGCAAGTGCCTCG 60

QY 61 CAGGTGAGCTGAGAGTCACGCCCATACTGGATCACTTCTGGGGCTCTCTCAC 120
DB 61 CAGGTGAGCTGAGAGTCACGCCCATACTGGATCACTTCTGGGGCTCTCTCAC 120

QY 121 CACCCCACTGGCTGACGGGACTGGTGGACGACGTCAGGATCTGCC 180
DB 121 CACCCCACTGGCTGACGGGACTGGTGGACGACGTCAGGATCTGCC 180

QY 181 GCCCTCAGGGTGCACCTGGGGAGGAGAACCTCTACTACAGGAACAGTGCTGCCGTC 240
DB 181 GCCCTCAGGGTGCACCTGGGGAGGAGAACCTCTACTACAGGAACAGTGCTGCCGTC 240

QY 241 AGCAGGATCATCGTCACCCACAGCTTACACGCCAGTCAGGACGACATGCCCTG 300
DB 241 AGCAGGATCATCGTCACCCACAGCTTACACGCCAGTCAGGACGACATGCCCTG 300

QY 301 CTGGAGCTGGAGGGCGGTGAACCTTCAGGACGTCACCGTACCCGCCCT 360
DB 301 CTGGAGCTGGAGGGCGGTGAACCTTCAGGACGTCACCGTACCCGCCCT 360

QY 661 GCGGAGCTGCGCCAAAGGGCTGGAATCACCGGTGACTACTG 720
DB 661 GCGGAGCTGCGCCAAAGGGCTGGAATCACCGGTGACTACTG 720

QY 721 GACTGGATCCACCACTATGTCCTCAAAGCCGTGAAAGGGGGCGTGT 771
DB 721 GACTGGATCCACCACTATGTCCTCAAAGCCGTGAAAGGGGGCGTGT 771

QY 661 GCGGAGCTGCGCCAAAGGGCTGGAATCACCGGTGACTACTG 720
DB 661 GCGGAGCTGCGCCAAAGGGCTGGAATCACCGGTGACTACTG 720

QY 541 GTCGGTGGAGCACTGCTGTCGGGAGACACCCGGAGGAATCATGTCAGGCGAGCCC 600
DB 541 GTCGGTGGAGCACTGCTGTCGGGAGACACCCGGAGGAATCATGTCAGGCGAGCCC 600

QY 601 GCGGAGCTGCGCCAAAGGGCTGGAATCACCGGTGACTACTG 720
DB 601 GCGGAGCTGCGCCAAAGGGCTGGAATCACCGGTGACTACTG 720

QY 721 GACTGGATCCACCACTATGTCCTCAAAGCCGTGAAAGGGGGCGTGT 771
DB 721 GACTGGATCCACCACTATGTCCTCAAAGCCGTGAAAGGGGGCGTGT 771

RESULT 4
US-09-598-982C-26
Sequence 26, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Fredschö, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34:06.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIORITY APPLICATION NUMBER: 09/079, 970
PRIORITY FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: Patentin version 3.3
SEQ ID NO: 26
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: CDS
NAME/KEY: CDS
LOCATION: (7) . . (753)
US-09-598-982C-26

Query Match 99.2%; Score 764.6; DB 1; Length 771;
Best Local Similarity 99.5%; Pred. No. 0.039; 4; Mismatches 0; Indels 0; Gaps 0;
Matches 767; Conservative 0;

QY 1 GGCCCCCTCGAGAAGAAAGATGCTGGGGGTAGAGGGCCCAAGAGCAAGTGCCTCG 60
DB 1 GGCCCCCTCGAGAAGAAAGATGCTGGGGGTAGAGGGCCCAAGAGCAAGTGCCTCG 60

QY 61 CAGGTGAGCTGAGAGTCACGCCCATACTGGATCACTTCTGGGGCTCTCTCAC 120
DB 61 CAGGTGAGCTGAGAGTCACGCCCATACTGGATCACTTCTGGGGCTCTCTCAC 120

QY 121 CACCCCACTGGCTGACGGGACTGGTGGACGACGTCAGGATCTGCC 180
DB 121 CACCCCACTGGCTGACGGGACTGGTGGACGACGTCAGGATCTGCC 180

QY 181 GCCCTCAGGGTGCACCTGGGGAGGAGAACCTCTACTACAGGAACAGTGCTGCCGTC 240
DB 181 GCCCTCAGGGTGCACCTGGGGAGGAGAACCTCTACTACAGGAACAGTGCTGCCGTC 240

QY 241 AGCAGGATCATCGTCACCCACAGCTTACACGCCAGTCAGGACGACATGCCCTG 300
DB 241 AGCAGGATCATCGTCACCCACAGCTTACACGCCAGTCAGGACGACATGCCCTG 300

QY 301 CTGGAGCTGGAGGGCGGTGAACCTTCAGGACGTCACCGTACCCGCCCT 360
DB 301 CTGGAGCTGGAGGGCGGTGAACCTTCAGGACGTCACCGTACCCGCCCT 360

QY 361 GCTCTCAGGTGAGAGTCACGCCCATACTGGTGGACGACATGCCCTG 420
DB 361 GCTCTCAGGTGAGAGTCACGCCCATACTGGTGGACGACATGCCCTG 420

QY 421 AATGATGAGGCGCTCCACCGCCATTCTCTGAGCAGGTGAGGTCCCATPATGAA 480
DB 421 AATGATGAGGCGCTCCACCGCCATTCTCTGAGCAGGTGAGGTCCCATPATGAA 480

QY 301 CTGGAGCTGGAGGGCGGTGAACCTTCAGGACGTCACCGTACCCGCCCT 360
DB 301 CTGGAGCTGGAGGGCGGTGAACCTTCAGGACGTCACCGTACCCGCCCT 360

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Db 301 CTGGCGCTGGAGGAGCCGGTGAAGTCCTCAGGCCGTCACAGGCCAACCTGTCCCCCT 360
QY 361 GCCTCTAGAGAAGCTTCCTCCCGGGGATGCGCTGCTGCACTGGGAGGAGATGGAC 420
Db 361 GCCTCTAGAGAAGCTTCCTCCCGGGGATGCGCTGCTGCACTGGGAGGAGATGGAC 420
QY 421 AATGATGTA3CGCTCCACCGCCATTTCCTCTGAGAGCAGGAGTGGCCATATGGAA 480
Db 421 AATGATGTA3CGCTCCACCGCCATTTCCTCTGAGAGCAGGAGTGGCCATATGGAA 480
QY 481 AACCCATTTGAGGCAAATAACACTTGCGCTCACCGGAGACGCTGGCATC 540
Db 481 AACCCATTTGAGGCAAATAACACTTGCGCTCACCGGAGACGCTGGCATC 540
QY 541 GTCCCGTGACCATGCTGTGTCGGAGGACTCTAGGGAGACGGGAGTCGGCATC 600
Db 541 GTCCCGTGACCATGCTGTGTCGGAGGACTCTAGGGAGACGGGAGTCGGCATC 600
QY 601 GGCGCACCTCTGGTGTGCGAGGATGACCTGGGAGTCGGGAGTCGGCATC 660
Db 601 GGCGCACCTCTGGTGTGCGAGGATGACCTGGGAGTCGGGAGTCGGCATC 660
QY 661 GGCGAGGGCTGTGCAGCCAAACGGCTGAAGCGCCGGCTGTCACTACCGGTGTCACTACTTG 720
Db 661 GGCGAGGGCTGTGCAGCCAAACGGCTGAAGCGCCGGCTGTCACTACCGGTGTCACTACTTG 720
QY 721 GACTGATCCACCACTATGCCCCAAAAGCCGTGAGCGCCGGCTGTCACTACTTG 771
Db 721 GACTGATCCACCACTATGCCCCAAAAGCCGTGAGCGCCGGCTGTCACTACTTG 771

RESULT 5
US-09-598-982C-8
; sequence 8, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendsch, Marty
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIORITY NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-8

Query Match 98 5%; Score 759 8; DB 1; Length 771;
Best Local Similarity 99.1%; Pred. No. 0.041; Matches 764; Conservative 0; Mismatches 0; Gaps 0;
QY 1 GGGCCCTCGAGAAGAAGATGTCGGGGTCAAGGGGGCCAGAGAACGCTGGCTCG 60
Db 1 GGGCCCTCGAGAAGAAGATGTCGGGGTCAAGGGGGCCAGAGAACGCTGGCTCG 60
QY 61 CAGGTGAGCTGAGGTCCAGGGCCATACTGGTGTGACACTCTGGGGGACTCCATC 120
Db 61 CAGGTGAGCTGAGGTCCAGGGCCATACTGGTGTGACACTCTGGGGGACTCCATC 120
QY 121 CACCCCACTGGTGTGAGAAGAAGATGTCGGGGTCAAGGGGGCCAGAGAACGCTGG 180
Db 121 CACCCCACTGGTGTGAGAAGAAGATGTCGGGGTCAAGGGGGCCAGAGAACGCTGG 180
QY 181 GCCCTCAGGGTGAAGTGCAGGAGAGCACTGCAGGAGAGCACTTACCAAGGACCAAGCTGTCGGCTG 240
Db 181 GCCCTCAGGGTGAAGTGCAGGAGAGCACTGCAGGAGAGCACTTACCAAGGACCAAGCTGTCGGCTG 240

RESULT 6
US-09-598-982C-38
; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendsch, Marty
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIORITY NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-38

Query Match 98 3%; Score 758 2; DB 1; Length 771;
Best Local Similarity 99.0%; Pred. No. 0.041; Matches 763; Conservative 0; Mismatches 8; Gaps 0;
QY 1 GGGCCCTCGAGAAGAAGATGTCGGGGTCAAGGGGGCCAGAGAACGCTGGCTCG 60
Db 1 GGGCCCTCGAGAAGAAGATGTCGGGGTCAAGGGGGCCAGAGAACGCTGGCTCG 60

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QY 61 CAGGTGAGCTGAGACTCCAGGCCATACTGTATGCACTTCGGGGACTCCATC 120
Db 61 CAGGTGAGCTGAGACTCCAGGCCATACTGTATGCACTTCGGGGACTCCATC 120
QY 121 CACCCCCAGTGGCTGACCGCAGCAGCACTGCGGGACCGAAGCTGAAGGAGCTGGCC 180
Db 121 CACCCCCAGTGGCTGACCGCAGCAGCACTGCGGGACCGAAGCTGAAGGAGCTGGCC 180
QY 181 GGCCTCAGGGTCACTGGGAGGAGCACCTTGCGGGAGGAGCTGGGAGGAGCTGGCC 180
Db 181 GGCCTCAGGGTCACTGGGAGGAGCACCTTGCGGGAGGAGCTGGGAGGAGCTGGCC 180
QY 241 AGCAGGATCATGGTCAACCCACAGTCTACACCGCCAGATCGGGAGGAGCTGGCC 300
Db 241 AGCAGGATCATGGTCAACCCACAGTCTACACCGCCAGATCGGGAGGAGCTGGCC 300
QY 301 CTGGAGCTGGAGGAGCCGGTGAACCTCTCAGGCCACGGTCAACCGTCAACCTGGCC 360
Db 301 CTGGAGCTGGAGGAGCCGGTGAACCTCTCAGGCCACGGTCAACCGTCAACCTGGCC 360
QY 361 GCTCTAGAGAACCTTCCCCGGGGATGGCTGCGTGTGGTCACTGGGGAGGAGCTGGCC 420
Db 361 GCTCTAGAGAACCTTCCCCGGGGATGGCTGCGTGTGGTCACTGGGGAGGAGCTGGCC 420
QY 421 ATGATGAGGCTCCACCGCATTCTGGAGCAGGTGGTCCATATGGAA 480
Db 421 ATGATGAGGCTCCACCGCATTCTGGAGCAGGTGGTCCATATGGAA 480
QY 481 ACCACATTGTTGAGCAAATAACCTTGGCCCTACGGGAGGAGCTGGCCTAACCGGCT 540
Db 481 ACCACATTGTTGAGCAAATAACCTTGGCCCTACGGGAGGAGCTGGCCTAACCGGCT 540
QY 541 GTCCGTGAGCACATCTGTGCGGGAGAACCCGGACTATGTAAGGGACGCC 600
Db 541 GTCCGTGAGCACATCTGTGCGGGAGAACCCGGACTATGTAAGGGACGCC 600
QY 601 GCGGAGCTCTGCTGAGGCTGAGCTGGGAGGAGCTGGCCTAACCGGCT 660
Db 601 GCGGAGCTCTGCTGAGGCTGAGCTGGGAGGAGCTGGCCTAACCGGCT 660
QY 661 GGCGAGGGCTGTCGCCAGCCACCGGCCCTGGCACTAACCGGCTAACCGGCT 720
Db 661 GGCGAGGGCTGTCGCCAGCCACCGGCCCTGGCACTAACCGGCTAACCGGCT 720
QY 721 GACTGATCACCACATGTCGCAAAAGGCCGAGGGCTGGATCTACCCGCTGACTACTG 771
Db 721 GACTGATCACCACATGTCGCAAAAGGCCGAGGGCTGGATCTACCCGCTGACTACTG 771

RESULT 7
US-09-598-982C-22
Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Hark-Frandscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-22

RESULT 8
US-09-598-982C-36
Sequence 36, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Hark-Frandscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: US/09/598, 982C
; NUMBER OF SEQ ID NOS: 52
; Prior Filing Date: 1998-04-15
; Prior Application Number: 09/079, 970
; Prior Filing Date: 1998-04-15
; Number of Seq ID Nos: 52

Query Match 98.1%; Score 756.6; DB 1; Length 771;
Best Local Similarity 98.8%; Pred. No. 0.042; Mismatches 9; Indels 0; Gaps 0;
Matches 762; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 1 GGCCTCAGGGTCACTGGGAGGAGCACCTTGCGGGAGGAGCTGGCC 60
Db 1 GGCCTCAGGGTCACTGGGAGGAGCACCTTGCGGGAGGAGCTGGCC 60
QY 61 CAGGTGAGCTGAGACTCCAGGCCATACTGTATGCACTTCGGGGACTCCATC 120
Db 61 CAGGTGAGCTGAGACTCCAGGCCATACTGTATGCACTTCGGGGACTCCATC 120
QY 61 CAGGTGAGCTGAGACTCCAGGCCATACTGTATGCACTTCGGGGACTCCATC 120
Db 61 CAGGTGAGCTGAGACTCCAGGCCATACTGTATGCACTTCGGGGACTCCATC 120
QY 121 CACCCCCAGTGGCTGACCGCAGCAGCACTGCGGGACCGAAGCTGAAGGAGCTGGCC 180
Db 121 CACCCCCAGTGGCTGACCGCAGCAGCACTGCGGGACCGAAGCTGAAGGAGCTGGCC 180
QY 181 GGCCTCAGGGTCACTGGGAGGAGCACCTTGCGGGAGGAGCTGGCC 60
Db 181 GGCCTCAGGGTCACTGGGAGGAGCACCTTGCGGGAGGAGCTGGCC 60
QY 241 AGCAGGATCATCTGTGCGGGAGAACCCGGACTATGTAAGGGACGCC 600
Db 241 AGCAGGATCATCTGTGCGGGAGAACCCGGACTATGTAAGGGACGCC 600
QY 301 CTGGAGCTGGAGGAGCCGGTGAACCTCTGGCCCTAACCGGCT 660
Db 301 CTGGAGCTGGAGGAGCCGGTGAACCTCTGGCCCTAACCGGCT 660
QY 361 GCTCTAGAGAACCTTCCCCGGGGATGGCTGCGTGTGGTCACTGGGGAGGAGCTGGCC 420
Db 361 GCTCTAGAGAACCTTCCCCGGGGATGGCTGCGTGTGGTCACTGGGGAGGAGCTGGCC 420
QY 421 ATGATGAGGCTCCACCGCATTCTGGAGCAGGTGGTCCATATGGAA 480
Db 421 ATGATGAGGCTCCACCGCATTCTGGAGCAGGTGGTCCATATGGAA 480
QY 481 ACCACATTGTTGAGCAAATAACCTTGGCCCTACGGGAGGAGCTGGCCTAACCGGCT 540
Db 481 ACCACATTGTTGAGCAAATAACCTTGGCCCTACGGGAGGAGCTGGCCTAACCGGCT 540
QY 541 GTCCGTGAGCACATCTGTGCGGGAGAACCCGGACTATGTAAGGGACGCC 600
Db 541 GTCCGTGAGCACATCTGTGCGGGAGAACCCGGACTATGTAAGGGACGCC 600
QY 601 GCGGAGCTCTGCTGAGGCTGAGCTGGGAGGAGCTGGCCTAACCGGCT 660
Db 601 GCGGAGCTCTGCTGAGGCTGAGCTGGGAGGAGCTGGCCTAACCGGCT 660
QY 661 GGCGAGGGCTGTCGCCAGCCACCGGCCCTGGCACTAACCGGCTAACCGGCT 720
Db 661 GGCGAGGGCTGTCGCCAGCCACCGGCCCTGGCACTAACCGGCTAACCGGCT 720
QY 721 GACTGATCACCACATGTCGCAAAAGGCCGAGGGCTGGATCTACCCGCTGACTACTG 771
Db 721 GACTGATCACCACATGTCGCAAAAGGCCGAGGGCTGGATCTACCCGCTGACTACTG 771

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; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 35
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-36

Query Match      97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0.042; Mismatches 10; Indels 0; Gaps 0;
Matches 761; Conservative 0; SSO ID NO: 20
Length: 771

QY  1 GGGCCCTCTGAGAAGATGTCGGGGTCAGGAGGGCCAGTGGCCCG 60
Db  1 GGGCCCTCTCAGAAAGAATGTCGGGGTCAGGAGGGCCAGTGGCCCG 60
QY  61 CAGGTAGCTTCAAGTCCAGGCCATACTTGATGACTCTGGGACTCCATC 120
Db  61 CAGGTAGCTTCAAGTCCAGGCCATACTTGATGACTCTGGGACTCCATC 120
QY  121 CACCCCAAGGTGGTGTGACCGCGACTGCGGGACGCGACGTCAGGATCTGGCC 180
Db  121 CACCCCAAGGTGGTGTGACCGCGACTGCGGGACGCGACGTCAGGATCTGGCC 180
QY  181 GCCTTAGGGTCAACTGCGGGAGCACCTTACAGGACAGCTGCGGTC 240
Db  181 GCCTTAGGGTCAACTGCGGGAGCACCTTACAGGACAGCTGCGGTC 240
QY  181 GGCCTCAGGGTGAATCTGCGGGACGACTCTACTACAGGACAGCTGCGGTC 240
Db  181 GGCCTCAGGGTGAATCTGCGGGACGACTCTACTACAGGACAGCTGCGGTC 240
QY  241 AGCAGCATGTTGAGCCAGAACGTTACACCGCCAGATGGAGGAGCATGGCC 300
Db  241 AGCAGCATGTTGAGCCAGAACGTTACACCGCCAGATGGAGGAGCATGGCC 300
QY  301 CTGGACTGGAGGGTGTACGTCAGGACAGTGGGAGGAGCATGGCC 360
Db  301 CTGGACTGGAGGGTGTACGTCAGGACAGTGGGAGGAGCATGGCC 360
QY  361 GCCTAGAGCTTCCCCGGATGCGCTGGTCACTGCGGGAGCTGGAC 420
Db  361 GCCTAGAGCTTCCCCGGATGCGCTGGTCACTGCGGGAGCTGGAC 420
QY  421 ATGATGAGCCCTTCCACGGCATTCCTGAGGAGGTGAATGGAA 480
Db  421 ATGATGAGCCCTTCCACGGCATTCCTGAGGAGGTGAATGGAA 480
QY  481 ACCACATTGAGCCAAATAACACCTTGGGCTACAGGGAGGACGTCGCATC 540
Db  481 ACCACATTGAGCCAAATAACACCTTGGGCTACAGGGAGGACGTCGCATC 540
QY  541 GTCCCTGAGGAGATGTTGGCGGACACCGGAGACTCTGTCAAGGGACGC 600
Db  541 GTCCCTGAGGAGATGTTGGCGGACACCGGAGACTCTGTCAAGGGACGC 600
QY  601 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 660
Db  601 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 660
QY  661 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 720
Db  661 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 720
QY  721 GACTGATCCACCACTATGTCCTCAAAACCGTGTAGCGCCGCGCTGT 771
Db  721 GACTGATCCACCACTATGTCCTCAAAACCGTGTAGCGCCGCGCTGT 771

RESULT 9
US-09-598-982C-20
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark

; APPLICANT: Hack-Friedscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SSO ID NO: 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20

Query Match      97.7%; Score 753.4; DB 1; Length 771;
Best Local Similarity 99.6%; Pred. No. 0.043; Mismatches 11; Indels 0; Gaps 0;
Matches 760; Conservative 0; SSO ID NO: 20
Length: 771

QY  1 GGGCCCTCTGAGAAGATGTCGGGGTCAGGAGGGCCAGTGGCCCG 60
Db  1 GGGCCCTCTGAGAAGATGTCGGGGTCAGGAGGGCCAGTGGCCCG 60
QY  61 CAGGTAGCTGAGAGTCAGGCCATACTGGGACTCTGGGACTCCATC 120
Db  61 CAGGTAGCTGAGAGTCAGGCCATACTGGGACTCTGGGACTCCATC 120
QY  121 CACCCCAAGGTGGTGTGACCGCGACTGCGGGACGCGACGTCAGGATCTGGCC 180
Db  121 CACCCCAAGGTGGTGTGACCGCGACTGCGGGACGCGACGTCAGGATCTGGCC 180
QY  181 GGCCTCAGGGTGAATCTGCGGGACGACTCTACTACAGGACAGCTGCGGTC 240
Db  181 GGCCTCAGGGTGAATCTGCGGGACGACTCTACTACAGGACAGCTGCGGTC 240
QY  241 AGCAGCATGTTGAGCCAGAACGTTACACCGCCAGATGGAGGAGCATGGCC 300
Db  241 AGCAGCATGTTGAGCCAGAACGTTACACCGCCAGATGGAGGAGCATGGCC 300
QY  301 CTGGACTGGAGGGTGTACGTCAGGACAGTGGGAGGAGCATGGCC 360
Db  301 CTGGACTGGAGGGTGTACGTCAGGACAGTGGGAGGAGCATGGCC 360
QY  361 GCCTAGAGCTTCCCCGGATGCGCTGGTCACTGCGGGAGCTGGAC 420
Db  361 GCCTAGAGCTTCCCCGGATGCGCTGGTCACTGCGGGAGCTGGAC 420
QY  421 ATGATGAGCCCTTCCACGGCATTCCTGAGGAGGTGAATGGAA 480
Db  421 ATGATGAGCCCTTCCACGGCATTCCTGAGGAGGTGAATGGAA 480
QY  481 ACCACATTGAGCCAAATAACACCTTGGGCTACAGGGAGGACGTCGCATC 540
Db  481 ACCACATTGAGCCAAATAACACCTTGGGCTACAGGGAGGACGTCGCATC 540
QY  541 GTCCCTGAGGAGATGTTGGCGGACACCGGAGACTCTGTCAAGGGACGC 600
Db  541 GTCCCTGAGGAGATGTTGGCGGACACCGGAGACTCTGTCAAGGGACGC 600
QY  601 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 660
Db  601 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 660
QY  661 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 720
Db  661 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 720
QY  721 GACTGATCCACCACTATGTCCTCAAAACCGTGTAGCGCCGCGCTGT 771
Db  721 GACTGATCCACCACTATGTCCTCAAAACCGTGTAGCGCCGCGCTGT 771

; APPLICANT: Hack-Friedscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SSO ID NO: 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20

Query Match      97.7%; Score 753.4; DB 1; Length 771;
Best Local Similarity 99.6%; Pred. No. 0.043; Mismatches 11; Indels 0; Gaps 0;
Matches 760; Conservative 0; SSO ID NO: 20
Length: 771

QY  1 GGGCCCTCTGAGAAGATGTCGGGGTCAGGAGGGCCAGTGGCCCG 60
Db  1 GGGCCCTCTGAGAAGATGTCGGGGTCAGGAGGGCCAGTGGCCCG 60
QY  61 CAGGTAGCTGAGAGTCAGGCCATACTGGGACTCTGGGACTCCATC 120
Db  61 CAGGTAGCTGAGAGTCAGGCCATACTGGGACTCTGGGACTCCATC 120
QY  121 CACCCCAAGGTGGTGTGACCGCGACTGCGGGACGCGACGTCAGGATCTGGCC 180
Db  121 CACCCCAAGGTGGTGTGACCGCGACTGCGGGACGCGACGTCAGGATCTGGCC 180
QY  181 GGCCTCAGGGTGAATCTGCGGGACGACTCTACTACAGGACAGCTGCGGTC 240
Db  181 GGCCTCAGGGTGAATCTGCGGGACGACTCTACTACAGGACAGCTGCGGTC 240
QY  241 AGCAGCATGTTGAGCCAGAACGTTACACCGCCAGATGGAGGAGCATGGCC 300
Db  241 AGCAGCATGTTGAGCCAGAACGTTACACCGCCAGATGGAGGAGCATGGCC 300
QY  301 CTGGACTGGAGGGTGTACGTCAGGACAGTGGGAGGAGCATGGCC 360
Db  301 CTGGACTGGAGGGTGTACGTCAGGACAGTGGGAGGAGCATGGCC 360
QY  361 GCCTAGAGCTTCCCCGGATGCGCTGGTCACTGCGGGAGCTGGAC 420
Db  361 GCCTAGAGCTTCCCCGGATGCGCTGGTCACTGCGGGAGCTGGAC 420
QY  421 ATGATGAGCCCTTCCACGGCATTCCTGAGGAGGTGAATGGAA 480
Db  421 ATGATGAGCCCTTCCACGGCATTCCTGAGGAGGTGAATGGAA 480
QY  481 ACCACATTGAGCCAAATAACACCTTGGGCTACAGGGAGGACGTCGCATC 540
Db  481 ACCACATTGAGCCAAATAACACCTTGGGCTACAGGGAGGACGTCGCATC 540
QY  541 GTCCCTGAGGAGATGTTGGCGGACACCGGAGACTCTGTCAAGGGACGC 600
Db  541 GTCCCTGAGGAGATGTTGGCGGACACCGGAGACTCTGTCAAGGGACGC 600
QY  601 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 660
Db  601 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 660
QY  661 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 720
Db  661 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 720
QY  721 GACTGATCCACCACTATGTCCTCAAAACCGTGTAGCGCCGCGCTGT 771
Db  721 GACTGATCCACCACTATGTCCTCAAAACCGTGTAGCGCCGCGCTGT 771

; APPLICANT: Hack-Friedscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SSO ID NO: 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-20

Query Match      97.7%; Score 753.4; DB 1; Length 771;
Best Local Similarity 99.6%; Pred. No. 0.043; Mismatches 11; Indels 0; Gaps 0;
Matches 760; Conservative 0; SSO ID NO: 20
Length: 771

QY  1 GGGCCCTCTGAGAAGATGTCGGGGTCAGGAGGGCCAGTGGCCCG 60
Db  1 GGGCCCTCTGAGAAGATGTCGGGGTCAGGAGGGCCAGTGGCCCG 60
QY  61 CAGGTAGCTGAGAGTCAGGCCATACTGGGACTCTGGGACTCCATC 120
Db  61 CAGGTAGCTGAGAGTCAGGCCATACTGGGACTCTGGGACTCCATC 120
QY  121 CACCCCAAGGTGGTGTGACCGCGACTGCGGGACGCGACGTCAGGATCTGGCC 180
Db  121 CACCCCAAGGTGGTGTGACCGCGACTGCGGGACGCGACGTCAGGATCTGGCC 180
QY  181 GGCCTCAGGGTGAATCTGCGGGACGACTCTACTACAGGACAGCTGCGGTC 240
Db  181 GGCCTCAGGGTGAATCTGCGGGACGACTCTACTACAGGACAGCTGCGGTC 240
QY  241 AGCAGCATGTTGAGCCAGAACGTTACACCGCCAGATGGAGGAGCATGGCC 300
Db  241 AGCAGCATGTTGAGCCAGAACGTTACACCGCCAGATGGAGGAGCATGGCC 300
QY  301 CTGGACTGGAGGGTGTACGTCAGGACAGTGGGAGGAGCATGGCC 360
Db  301 CTGGACTGGAGGGTGTACGTCAGGACAGTGGGAGGAGCATGGCC 360
QY  361 GCCTAGAGCTTCCCCGGATGCGCTGGTCACTGCGGGAGCTGGAC 420
Db  361 GCCTAGAGCTTCCCCGGATGCGCTGGTCACTGCGGGAGCTGGAC 420
QY  421 ATGATGAGCCCTTCCACGGCATTCCTGAGGAGGTGAATGGAA 480
Db  421 ATGATGAGCCCTTCCACGGCATTCCTGAGGAGGTGAATGGAA 480
QY  481 ACCACATTGAGCCAAATAACACCTTGGGCTACAGGGAGGACGTCGCATC 540
Db  481 ACCACATTGAGCCAAATAACACCTTGGGCTACAGGGAGGACGTCGCATC 540
QY  541 GTCCCTGAGGAGATGTTGGCGGACACCGGAGACTCTGTCAAGGGACGC 600
Db  541 GTCCCTGAGGAGATGTTGGCGGACACCGGAGACTCTGTCAAGGGACGC 600
QY  601 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 660
Db  601 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 660
QY  661 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 720
Db  661 GCGGAGCTTGTGAGGAGATGGCATCTACCCCGTGTACCTACTGG 720
QY  721 GACTGATCCACCACTATGTCCTCAAAACCGTGTAGCGCCGCGCTGT 771
Db  721 GACTGATCCACCACTATGTCCTCAAAACCGTGTAGCGCCGCGCTGT 771

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RESULT 10
US-09-598-982C-10
; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 10
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(735)
; US-09-598-982C-10

Query Match          93.9%; Score 723.8; DB 1; Length 735;
Best Local Similarity 99.0%; Pred. No. 0.06; Mismatches 0; Indels 0; Gaps 0;
Matches 728; Conservative 0; MisMatches 7; Indels 0; Gaps 0;

Qy      19 ATCGCTGGGGTCAAGGAGGCCCGCCAGGAGAATGCGCCCGTCAGGCTGAGAGTC 78
Db      1 ATCGCTGGGGTCAAGGAGGCCCGCCAGGAGAATGCGCCCGTCAGGCTGAGAGTC 60
Qy      79 CACGGCCATACTGGATGCCTCTCGGGGGCTCTCATCACCCCCAGTGCTGCTG 138
Db      61 CACGGCCATACTGGACTCTCGGGGGCTCTCATCACCCCCAGTGCTGCTG 120
Qy      139 ACCGAGCCTACTGGTGGACCAGGAGTCAGAGGACTGGCCCTCAAGGTGAACTG 198
Db      121 ACCGAGCCTACTGGTGGACCAGGAGTCAGAGGACTGGCCCTCAAGGTGAACTG 180
Qy      199 CGGAGCAGGACCTTACTACCAAGGACACTGCGCCGTCAGGAGATCATCTGGAC 258
Db      181 CGGAGCAGGACCTTACTACCAAGGACACTGCGCCCTCAAGGAGATCATCTGGAC 240
Qy      259 CCRAGTTACACGGCCGAGTCGGAGCGAGACATGGCCCTGCTGAGGCTGAGGAGCC 318
Db      241 CCAGGTTACACGGCCGAGTCGGAGCGACATGGCCCTGCTGAGGAGCC 300
Qy      319 GTGAGAGCTTCCAGCAAGCGTCAACGGTACCTGGCTGCTGAGGACTTCCC 378
Db      301 GTGAGAGCTTCCAGCAAGCGTCAACGGTACCTGGCTGCTGAGGACTTCCC 360
Db      379 CGCGGGATCCGTCCTGGTCACTGGCTGGGGGCTGGGAGAATGAGGCTGCCCA 438
Db      361 CGCGGGATCCGTCCTGGTCACTGGCTGGGGGCTGGGAGAATGAGGCTGCCCA 420
Qy      439 CGCGGGATCCGTCCTGGTCACTGGCTGGGGGCTGGGAGAATGAGGCTGCCCA 498
Db      421 CGCGGGATCCGTCCTGGTCACTGGCTGGGGGCTGGGAGAATGAGGCTGCCCA 480
Qy      499 AAATACCACTTGGGCTTACACGGAGAGGACGCGGCTGCTGAGGCTGAGGCTG 558
Db      481 AAATACCACTTGGGCTTACACGGAGAGGACGCGGCTGCTGAGGCTGAGGCTG 540
Qy      559 TGTGCCGGAACACCGGAGGACTCATGTCAGGGAGACCCGGGACCTCTGGTGC 618
Db      541 TGTGCCGGAACACCGGAGGACTCATGTCAGGGAGACCCGGGCTGCTG 600
Qy      619 AAGGTTGAATGGCACCTGGCTGCAAGGGGGGGTGGTAGCTGGGGAGGGCTG 678

RESULT 11
US-09-598-982C-8/c
; Sequence 8, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-8

Query Match          3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 53; Indels 0; Gaps 0;
Matches 60; Conservative 0; MisMatches 53; Indels 0; Gaps 0;

Qy      1 GGGCCCTCGAGAAGATCTCGGGGCTAGGAGGCCCGGAGGAGGCTCG 60
Db      113 GAGCCCCGGAGAGTCATCGTAGTATGGCGGTGACTCTCGAGGCTACCTCGAGGSC 54
Qy      61 CAGGTGAGCTGAGGCTGCAAGGCCCTACTGGATGACTCTCGGGAGGGCTC 113
Db      53 CACTGCTCTGGGGCTCTCACCCGAGGATCTTCTCGAGGGGCC 1
Db      53 CACTGCTCTGGGGCTCTCACCCGAGGATCTTCTCGAGGGGCC 1

RESULT 12
US-09-598-982C-20/c
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)

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US-09-598-982C-20

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; Matches 60; Conservative 0; Indels 0; Gaps 0;

RESULT 13
US-09-598-982C-22/c

; Sequence 22, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendcho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME

; FILE REFERENCE: 34506.104

; CURRENT APPLICATION NUMBER: US/09/598, 982C

; CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 22

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE: NAME/KEY: CDS

LOCATION: (7)..(753)

; US-09-598-982C-22

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; Matches 60; Conservative 0; Indels 0; Gaps 0;

RESULT 14
US-09-598-982C-24/c

; Sequence 24, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendcho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME

; FILE REFERENCE: 34506.104

; CURRENT APPLICATION NUMBER: US/09/598, 982C

; CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 24

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE: NAME/KEY: CDS

LOCATION: (7)..(753)

; US-09-598-982C-24

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; Matches 60; Conservative 0; Indels 0; Gaps 0;

RESULT 15
US-09-598-982C-26/c

; Sequence 26, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendcho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME

; FILE REFERENCE: 34506.104

; CURRENT APPLICATION NUMBER: US/09/598, 982C

; CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 26

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE: NAME/KEY: CDS

LOCATION: (7)..(753)

; US-09-598-982C-26

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Mismatches 0; Matches 60; Conservative 0; Indels 0; Gaps 0;

RESULT 16
US-09-598-982C-36/c

; Sequence 36, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendcho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME

; FILE REFERENCE: 34506.104

; CURRENT APPLICATION NUMBER: US/09/598, 982C

; CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 24

LENGTH: 771

TYPE: DNA

ORGANISM: Homo sapiens

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; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-36

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
; Gaps 0; Gaps 0;

; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)

RESULT 17
US-09-598-982C-38/c

; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
; Gaps 0; Gaps 0;

; Sequence 38, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 38
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)

RESULT 18
US-09-598-982C-40/c

; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-40

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
; Gaps 0; Gaps 0;

; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)

RESULT 19
US-09-598-982C-42/c

; Sequence 42, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 42
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)

RESULT 20
US-09-598-982C-10/c

; Sequence 10, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 10
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (753)
; US-09-598-982C-10
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Result No.	Score	Query Match	Length	DB ID	Description	
1	771	100.0	771	1	US-09-598-982C-42	
2	769.4	99.8	771	1	US-09-598-982C-40	
3	766.2	99.4	771	1	US-09-598-982C-40	
4	764.6	99.2	771	1	US-09-598-982C-40	
5	759.8	98.5	771	1	US-09-598-982C-24	
6	758.2	98.3	771	1	US-09-598-982C-38	
7	756.6	98.1	771	1	US-09-598-982C-22	
8	755	97.9	771	1	US-09-598-982C-36	
9	753.4	97.7	771	1	US-09-598-982C-20	
10	723.8	93.9	735	1	US-09-598-982C-10	
C	11	28.2	3.7	771	1	US-09-598-982C-8
C	12	28.2	3.7	771	1	US-09-598-982C-20
C	13	28.2	3.7	771	1	US-09-598-982C-22
C	14	28.2	3.7	771	1	US-09-598-982C-24
C	15	28.2	3.7	771	1	US-09-598-982C-26
C	16	28.2	3.7	771	1	US-09-598-982C-26
C	17	28.2	3.7	771	1	US-09-598-982C-36
C	18	28.2	3.7	771	1	US-09-598-982C-38
C	19	28.2	3.7	771	1	US-09-598-982C-40
C	20	25.6	3.3	735	1	US-09-598-982C-10
ALIGNMENTS						
RESULT 1						
US-09-598-982C-42						
Sequence 42, Application US/09598982C						
GENERAL INFORMATION:						
APPLICANT: Niles, Andrew						
APPLICANT: Maffitt, Mark						
APPLICANT: Haak-Frendrich, Mary						
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME						
FILE REFERENCE: 34306.104						
CURRENT APPLICATION NUMBER: US/09/598,982C						
CURRENT FILING DATE: 2000-06-21						
PRIOR APPLICATION NUMBER: 09/079,970						
NUMBER OF SEQ ID NOS: 52						
TITLE: OM nucleic - nucleic search, using sw model						
Run on: August 26, 2005, 12:31:55 ; Search time 2.81314 Seconds						
4.206 Million cell updates/sec						
Title: Perfect score: 771						
Sequence: 1 gggcccttcgagaaaaaat.....cgtgaacggccgcgcgtcgat 771						
Scoring table: IDENTITY_NUC Gapop 10_0 , Gapext 0.5						
Searched: 10 seqs, 7674 residues						
Total number of hits satisfying chosen parameters: 20						
Post-processing: Maximum Match 0%						
Listing first 200 summaries						
Database : US09598982C_rev.seq:*						
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.						
SUMMARIES						

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Db      61 CAGGTGAGCTGAGAGTCACGCCCAACTGGTCACTTCGGGACTTCGGGGCTCTCAC 120
Qy      241 AGCAGGATCATCGGCACCACTCTACACGCCAGATCGAGGAGCATCGCCCTG 300
Db      241 AGCAGGATCATCGGCACCACTCTACACGCCAGATCGAGGAGCATCGCCCTG 300
Qy      301 CTGGAGCTGAGGAGGCCGTTGAAGGCTTCAGGGCACGTTCAACGCCAATCGAGGAGCATCGCCCTG 360
Db      301 CTGGAGCTGAGGAGGCCGTTGAAGGCTTCAGGGCACGTTCAACGCCAATCGAGGAGCATCGCCCTG 360
Qy      361 GCTTCAGAGACCTTCCCGGGAGGGAGTGCGTGTGGTACTCTGGGGATGTGGAC 420
Db      361 GCTTCAGAGACCTTCCCGGGAGGGAGTGCGTGTGGTACTCTGGGGATGTGGAC 420
Qy      361 GCTTCAGAGACCTTCCCGGGAGGGAGTGCGTGTGGTACTCTGGGGATGTGGAC 420
Db      421 AATGATGAGGCCCTCCACGCCATTCTCGAGAGGTGCCATTATGAA 480
Db      421 AATGATGAGGCCCTCCACGCCATTCTCGAGAGGTGCCATTATGAA 480
Qy      481 AACACATTTGTGAGCAAATAACACCTTGGCCCTACACGGAGAGCAGTCGGCATC 540
Db      481 AACACATTTGTGAGCAAATAACACCTTGGCCCTACACGGAGAGCAGTCGGCATC 540
Qy      541 GTCGTGAGACATCTGTGTGCGGGACACCGGGAGACTATGCCAGAGAGCCC 600
Db      541 GTCGTGAGACATCTGTGTGCGGGACACCGGGAGACTATGCCAGAGAGCCC 600
Qy      541 GTCGTGAGACATCTGTGTGCGGGACACCGGGAGACTATGCCAGAGAGCCC 600
Db      601 GGCGGACCACTGGTGTGAGGTAATGGCCTACGGCTGGTCACTGGCTGGCGATGTGGC 660
Db      601 GGCGGACCACTGGTGTGAGGTAATGGCCTACGGCTGGTCACTGGCTGGCGATGTGGC 660
Qy      661 GGCGGACCACTGGTGTGAGGTAATGGCCTACGGCTGGTCACTGGCTGGCGATGTGGC 720
Db      661 GGCGGACCACTGGTGTGAGGTAATGGCCTACGGCTGGTCACTGGCTGGCGATGTGGC 720
Qy      721 GACTGGATCACCACATGTCCTCAAAGGCGCTGAAGGGGGCCCGTGT 771
Db      721 GACTGGATCACCACATGTCCTCAAAGGCGCTGAAGGGGGCCCGTGT 771
Db      721 GACTGGATCACCACATGTCCTCAAAGGCGCTGAAGGGGGCCCGTGT 771

RESULT 2
US-09-598-982C-26
; Sequence 26, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34:06-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 26
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)

Query Match      99.8%; Score 769.4; DB 1; Length 771;
Best Local Similarity 99.9%; Pred. No. 0.037; Matches 770; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Length: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)

US-09-598-982C-26

Query Match      99.8%; Score 769.4; DB 1; Length 771;
Best Local Similarity 99.9%; Pred. No. 0.037; Matches 770; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Length: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)

US-09-598-982C-40
; Sequence 40, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendescho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34:06-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 40
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)

Query Match      99.4%; Score 766.2; DB 1; Length 771;

```

```

; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-24

Query Match          99.2%; Score 764.6; DB 1; Length 771;
Best Local Similarity 99.5%;保守性 99.5%; Pred. No. 0.039; Matches 767; Conservative 99.5%; Pred. No. 0.039; Mismatches 0; Indels 4; Gaps 0; MisMatches 0; Indels 4; Gaps 0;
; Matches 767; Conservative 99.5%; Pred. No. 0.039; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAGAATGTCGGGTCAAGGAGGCCAGGACAGTGCGCCCTGG 60
Db 1 GGGCCCTCGAGAAAGAATGTCGGGTCAAGGAGGCCAGGACAGTGCGCCCTGG 60
QY 61 CAGGTAGGCCTGAGATGTCGGGTCAAGGAGGCCAGGACAGTGCGCCCTGG 120
61 CAGGTAGGCCTGAGATGTCGGGTCAAGGAGGCCAGGACAGTGCGCCCTGG 120
Db 121 CACCCCACTGGTGTGACGGAGCCACTACTGGATGTCGGGTCAAGGAGGCCAGGACAGTGCGCCCTGG 180
QY 121 CACCCCACTGGTGTGACGGAGCCACTACTGGATGTCGGGTCAAGGAGGCCAGGACAGTGCGCCCTGG 180
Db 181 GCCTCTAGGGTGAATCTGGGAGAGAACGACTCTGGATGTCGGGTCAAGGAGGCCAGGACAGTGCGCCCTGG 240
181 GCCTCTAGGGTGAATCTGGGAGAGAACGACTCTGGATGTCGGGTCAAGGAGGCCAGGACAGTGCGCCCTGG 240
QY 241 AGCAGATCATGTCACCCACAGTTACACGCCAGATGGAGGGAGATCGGCCCTG 300
241 AGCAGATCATGTCACCCACAGTTACACGCCAGATGGAGGGAGATCGGCCCTG 300
Db 301 CTGGAGCTGGAGGAGCGGTGACCTCTCCAGCCACGTCACCCGACCTGGCCCT 360
301 CTGGAGCTGGAGGAGCGGTGACCTCTCCAGCCACGTCACCCGACCTGGCCCT 360
QY 361 GCCTAGAGACCTTCACCCACAGTTACACGCCAGATGGAGGGAGATGTGGAC 420
361 GCCTAGAGACCTTCACCCACAGTTACACGCCAGATGGAGGGAGATGTGGAC 420
Db 420 AATGATGAGGCCCTCCACGCCATTCTCTGTAAGCAGGTAAGGTTCCATATGGAA 480
420 AATGATGAGGCCCTCCACGCCATTCTCTGTAAGCAGGTAAGGTTCCATATGGAA 480
QY 481 AACCCATTTGAGGCAAATAACCACTTGTGGCTTACAGGGAGGAGACTCGCATC 540
481 AACCCATTTGAGGCAAATAACCACTTGTGGCTTACAGGGAGGAGACTCGCATC 540
Db 540 541 GTCCCGTACCGAATCTGTGCGCCGAAACCCGGAGGACTCTACCCAGGAGGCC 600
541 GTCCCGTACCGAATCTGTGCGCCGAAACCCGGAGGACTCTACCCAGGAGGCC 600
QY 601 GGCAGAACCTCTGGTGTGCAAGGTGAATGGCACCTCTGGTGTGAGGGAGGACTCTACCCAGGAGGCC 660
601 GGCAGAACCTCTGGTGTGCAAGGTGAATGGCACCTCTGGTGTGAGGGAGGACTCTACCCAGGAGGCC 660
Db 660 661 GGGAGGGCTGTGCCAGGCCAACCGCTGTGCACTACACCGTGACCTACTTG 720
661 GGGAGGGCTGTGCCAGGCCAACCGCTGTGCACTACACCGTGACCTACTTG 720
Db 720 721 GACTGGATCCACCAATATGTCGCCAAAAGCGGTGAGGGGGCGCCCTGT 771
721 GACTGGATCCACCAATATGTCGCCAAAAGCGGTGAGGGGGCGCCCTGT 771

```

FILE REFERENCE: 34506.104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIORITY FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO: 8
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: CDS
 NAME/KEY: CDS
 LOCATION: (7) .. (753)
 ; US-09-598-982C-8

Query Match 98.5%; Score 759.8; DB 1; Length 771;
 Best Local Similarity 99.1%; Pred. No. 0.041; Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAAGAATCGTCGCGGGTCAAGGAGGACAGTGGCCCTGG 60
 Db 1 GGGCCCTCGAGAAAAGAATCGTCGCGGGTCAAGGAGGACAGTGGCCCTGG 60

QY 61 CAGGTGAGCTGAGTCAGGAGCCACTACTGGATGACTCTCGGGGGCTCCATC 120
 Db 61 CAGGTGAGCTGAGTCAGGAGCCACTACTGGATGACTCTCGGGGGCTCCATC 120

QY 121 CACCCCACTGGGCTGACCGAGCCACTCTGGATGACTCTCGGGGGCTCCATC 180
 Db 121 CACCCCACTGGGCTGACCGAGCCACTCTGGATGACTCTCGGGGGCTCCATC 180

QY 181 GCCCTTAAGGGTCAACTGGGGGGAGAACCTCTTACCAAGGACCGACTGTCGGG 240
 Db 181 GCCCTTAAGGGTCAACTGGGGGGAGAACCTCTTACCAAGGACCGACTGTCGGG 240

QY 241 ACCAGGATCATGCCAACACAGTTTACACGCCAACATGGAGGGACATGCCCTG 300
 Db 241 ACCAGGATCATGCCAACACAGTTTACACGCCAACATGGAGGGACATGCCCTG 300

QY 301 CTGGAGCTGGAGGGACGGGTGAACCTCTCACGCCAACATGGAGGGACATGCCCTG 360
 Db 301 CTGGAGCTGGAGGGACGGGTGAACCTCTCACGCCAACATGGAGGGACATGCCCTG 360

QY 361 GCCTCAAGAACCTTCCCCGGGGATGCCCTGGGGTCAACCGTCAACCCCT 420
 Db 361 GCCTCAAGAACCTTCCCCGGGGATGCCCTGGGGTCAACCGTCAACCCCT 420

QY 421 ATGATGAGGGCTCCACCGCAATTCTCTGAGACAGAGCTGGTGAAGGCCCATAATGGAA 480
 Db 421 ATGATGAGGGCTCCACCGCAATTCTCTGAGACAGAGCTGGTGAAGGCCCATAATGGAA 480

QY 481 AACCAATTGTGACCAAATAACCACTTGGGCTACAGGAGGAGCTACGGGAGGAGCTGCATC 540
 Db 481 AACCAATTGTGACCAAATAACCACTTGGGCTACAGGAGGAGCTACGGGAGGAGCTGCATC 540

QY 541 GTCGGTGAGCACATCTGTTGGCCGGAACACCGGAGGAGCTACGGGAGGAGCTGCATC 600
 Db 541 GTCGGTGAGCACATCTGTTGGCCGGAACACCGGAGGAGCTACGGGAGGAGCTGCATC 600

QY 601 GGCGGACCACTGGTGTGCAAGGTGAATGGGACCTCTGGCTGAGGGGGCGTGTGCTGG 660
 Db 601 GGCGGACCACTGGTGTGCAAGGTGAATGGGACCTCTGGCTGAGGGGGCGTGTGCTGG 660

QY 661 GGGGAGGGCTGTGCCAACCGCCACCGGCTGCACTATCACCCCTGTCACTATGGAA 720
 Db 661 GGGGAGGGCTGTGCCAACCGCCACCGGCTGCACTATCACCCCTGTCACTATGGAA 720

QY 721 GACTCGATCACCACATATGTGCCAAAGCGTGAGGGGCCCGTGTGCTGGT 771
 Db 721 GACTCGATCACCACATATGTGCCAAAGCGTGAGGGGCCCGTGTGCTGGT 771

; US-09-598-982C-38

Query Match 98.3%; Score 758.2; DB 1; Length 771;
 Best Local Similarity 99.0%; Pred. No. 0.041; Matches 763; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 763; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGCCCTCGAGAAAAGAATCGTCGCGGGTCAAGGAGGACAGTGGCCCTGG 60
 Db 1 GGGCCCTCGAGAAAAGAATCGTCGCGGGTCAAGGAGGACAGTGGCCCTGG 60

QY 61 CAGGTGAGCTGAGTCAGGAGCCACTACTGGATGACTCTCGGGGGCTCCATC 120
 Db 61 CAGGTGAGCTGAGTCAGGAGCCACTACTGGATGACTCTCGGGGGCTCCATC 120

QY 121 CACCCCACTGGGCTGACCGAGCCACTCTGGATGACTCTCGGGGGCTCCATC 180
 Db 121 CACCCCACTGGGCTGACCGAGCCACTCTGGATGACTCTCGGGGGCTCCATC 180

QY 181 GCCCTTAAGGGTCAACTGGGGGGAGAACCTCTTACCAAGGACCGACTGTCGGG 240
 Db 181 GCCCTTAAGGGTCAACTGGGGGGAGAACCTCTTACCAAGGACCGACTGTCGGG 240

QY 241 ACCAGGATCATGCCAACACAGTTTACACGCCAACATGGAGGGACATGCCCTG 300
 Db 241 ACCAGGATCATGCCAACACAGTTTACACGCCAACATGGAGGGACATGCCCTG 300

QY 301 CTGGAGCTGGAGGGACGGGTGAACCTCTCACGCCAACATGGAGGGACATGCCCTG 360
 Db 301 CTGGAGCTGGAGGGACGGGTGAACCTCTCACGCCAACATGGAGGGACATGCCCTG 360

QY 361 GCCTCAAGAACCTTCCCCGGGGATGCCCTGGGGTCAACCGTCAACCCCT 420
 Db 361 GCCTCAAGAACCTTCCCCGGGGATGCCCTGGGGTCAACCGTCAACCCCT 420

QY 421 ATGATGAGGGCTCCACCGCAATTCTCTGAGACAGAGCTGGTGAAGGCCCATAATGGAA 480
 Db 421 ATGATGAGGGCTCCACCGCAATTCTCTGAGACAGAGCTGGTGAAGGCCCATAATGGAA 480

QY 481 AACCAATTGTGACCAAATAACCACTTGGGCTACAGGAGGAGCTACGGGAGGAGCTGCATC 540
 Db 481 AACCAATTGTGACCAAATAACCACTTGGGCTACAGGAGGAGCTACGGGAGGAGCTGCATC 540

QY 541 GTCGGTGAGCACATCTGTTGGCCGGAACACCGGAGGAGCTACGGGAGGAGCTGCATC 600
 Db 541 GTCGGTGAGCACATCTGTTGGCCGGAACACCGGAGGAGCTACGGGAGGAGCTGCATC 600

QY 601 GGCGGACCACTGGTGTGCAAGGTGAATGGGACCTCTGGCTGAGGGGGCGTGTGCTGG 660
 Db 601 GGCGGACCACTGGTGTGCAAGGTGAATGGGACCTCTGGCTGAGGGGGCGTGTGCTGG 660

QY 661 GGGGAGGGCTGTGCCAACCGCCACCGGCTGCACTATCACCCCTGTCACTATGGAA 720
 Db 661 GGGGAGGGCTGTGCCAACCGCCACCGGCTGCACTATCACCCCTGTCACTATGGAA 720

QY 721 GACTCGATCACCACATATGTGCCAAAGCGTGAGGGGCCCGTGTGCTGGT 771
 Db 721 GACTCGATCACCACATATGTGCCAAAGCGTGAGGGGCCCGTGTGCTGGT 771

RESULT 7
US-09-598-982C-22
; Sequence 22, Application US/09598982C
GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506-104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIORITY APPLICATION NUMBER: 09/079, 970
PRIORITY FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 22
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-22

Query Match 98.1%; Score 756.6; DB 1; Length 771;
Best Local Similarity 98.8%; Pred. No. 0; 042; Mismatches 0; Indels 0; Gaps 0;
Matches 762; Conservative

QY 1 GGGCCCTCTGAGAAAGAATCTCGGGGTCAAGGAGCCCCAGGAGCAAGTGGCCCTGG 60
Db 1 gggccctctgagaaaagatctcggggtcaaggagccccaggaggcaagtggccctgg 60

QY 61 CAGGTGTACGCCACTGAGGAGGCCCCATACTGGATGACTCTTGCGGGGTCRCCATC 120
Db 61 cagggtgtacgccactgagggaggccccatactggatgactcttgcggggtccatc 120

QY 121 CACCCCACTGGGTGTGACCGCAGGCCACTCGTGGGGTCAAGATCTGGCC 180
Db 121 caccccaactgggtgtgaccgcaggccactcggtggggtcaaggatctggcc 180

QY 181 GCCTCTAGGGTCAATGCGGAGCACCTCTAACAGGACCAAGCTGTGCGGGTC 240
Db 181 gcctctagggtcaatgcggagcacctctaacaggaccaagctgtgccccgtc 240

QY 241 AGCAGGATCATCGTGTGACCCACGTTTACACGCCAGATGGACAGGACATCGCC 300
Db 241 agcaggatcatcggtgtgacccacgtttacacgccagatggacaggacatcgcc 300

QY 301 CTGGACACTGGAGGAGGGCGGTGACGTTCTCCGCTGGGTCAAGCTGGCCCT 360
Db 301 ctggacactggaggaggcggtgacgttctccggctgggtcaagctggccct 360

QY 361 GCCTCTAGGTCTGAGGAGGAGGGCGGTGACGTTCTCCGCTGGGTCAAGCTGG 420
Db 361 gcctctagggtctgaggaggaggcggtgacgttctccggctgggtcaagctgg 420

QY 421 ATATGAGGAGGACCTCCACCCCATTTCTCTGAGAAGGGAGGAGGAGGACATCG 480
Db 421 atatgagtaggcctccaccccatttctctgagaaggaggaggaggaggacatcg 480

QY 481 AACCCATTGACCCAAATACTCCCTTGCGGCATACAGGGAGGAGGAGGACATCG 540
Db 481 aaccatttgtacccaaatactcccttgcggtacatggggaggaggaggacatcg 540

RESULT 8
US-09-598-982C-36
; Sequence 36, Application US/09598982C
GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506-104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIORITY APPLICATION NUMBER: 09/079, 970
PRIORITY FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO 36
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(753)
; US-09-598-982C-36

Query Match 97.9%; Score 755; DB 1; Length 771;
Best Local Similarity 98.7%; Pred. No. 0; 042; Mismatches 0; Indels 0; Gaps 0;
Matches 761; Conservative

QY 1 GGGCCCTCTGAGAAAGAATCTCGGGGTCAAGGAGCCCCAGGAGCAAGTGGCCCTGG 60
Db 1 gggccctctgagaaaagatctcggggtcaaggagccccaggaggcaagtggccctgg 60

QY 61 CAGGTGTACGCCACTGAGGAGGCCCCATACTGGATGACTCTTGCGGGGTCRCCATC 120
Db 61 cagggtgtacgccactgagggaggccccatactggatgactcttgcggggtccatc 120

QY 121 GCCTCTAGGGTCAATGCGGAGCACCTCTAACAGGACCAAGCTGTGCGGGTC 240
Db 121 gcctctagggtcaatgcggagcacctctaacaggaccaagctgtgccccgtc 240

QY 181 AGCAGGATCATCGTGTGACCCACGTTTACACGCCAGATGGACAGGACATCGCC 300
Db 181 agcaggatcatcggtgtgacccacgtttacacgccagatggacaggacatcgcc 300

QY 241 CACCCCACTGGGTGTGACCGCAGGCCACTCGTGGGGTCAAGATCTGGCC 360
Db 241 caccccaactgggtgtgaccgcaggccactcggtggggtcaaggatctggcc 360

QY 301 GCCTCTAGGTCTGAGGAGGAGGGCGGTGACGTTCTCCGCTGGGTCAAGCTGG 420
Db 301 gcctctagggtctgaggaggaggcggtgacgttctccggctgggtcaagctgg 420

QY 361 GCCTCTAGGTCTGAGGAGGAGGGCGGTGACGTTCTCCGCTGGGTCAAGCTGG 480
Db 361 gcctctagggtctgaggaggaggcggtgacgttctccggctgggtcaagctgg 480

QY 421 AACCCATTGACCCAAATACTCCCTTGCGGCATACAGGGAGGAGGAGGACATCG 540
Db 421 aaccatttgtacccaaatactcccttgcggtacatggggaggaggaggacatcg 540

QY 481 AACCCATTGACCCAAATACTCCCTTGCGGCATACAGGGAGGAGGAGGACATCG 540
Db 481 aaccatttgtacccaaatactcccttgcggtacatggggaggaggaggacatcg 540

RESULT 9
US-09-598-982C-20

```

; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Hask-Frendscio, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIORITY FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
SEQ ID NO: 20
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: NAME/KEY: CDS
LOCATION: (7...) . (753)
; LOCATION: (7...) . (753)

Query Match 97.7%: Score 753.4; DB 1; Length 771;
Best Local Similarity 98.6%; Pred. No. 0.043; Indels 0; Gaps 0;
Matches 760; Conservative 0; Mismatches 11; Delins 0; Gaps 0;

QY 1 GGCCCTCGAGAAGATCGTGGGGTCAAGGGCCCCAGGAGTCGGCTCG 60
Db 1 GGSCCCTCGAGAAGATCGTGGGGTCAAGGGCCCCAGGAGTCGGCTCG 60
LENGTH: 735
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: NAME/KEY: CDS
LOCATION: (1...) . (735)
; LOCATION: (1...) . (735)

Query Match 93.9%: Score 723.8; DB 1; Length 735;
Best Local Similarity 99.0%; Pred. No. 0.06; Indels 7; Gaps 0;
Matches 728; Conservative 0; Mismatches 7; Delins 0; Gaps 0;
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: NAME/KEY: CDS
; LOCATION: (1...) . (735)
; LOCATION: (1...) . (735)

Query Match 99.0%: Score 723.8; DB 1; Length 735;
Best Local Similarity 99.0%; Pred. No. 0.06; Indels 7; Gaps 0;
Matches 728; Conservative 0; Mismatches 7; Delins 0; Gaps 0;
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: NAME/KEY: CDS
; LOCATION: (1...) . (735)
; LOCATION: (1...) . (735)

QY 19 ATCGTGGGGTCAAGGGCCCCAGGAGTCGGCTCGAGGTGAGGAGTC 78
Db 1 ATCGTGGGGTCAAGGGCCCCAGGAGTCGGCTCGAGGTGAGGAGTC 60
LENGTH: 735
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: NAME/KEY: CDS
LOCATION: (1...) . (735)
; LOCATION: (1...) . (735)

QY 79 CACGCCCATACTGACTCTGCGGGGCTCTCATCACCCAGTGGTGTG 138
Db 61 CACGCCCATACTGACTCTGCGGGGCTCTCATCACCCAGTGGTGTG 120

```

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QY          13.9 ACCGAGCAGCACTGGGACCGGACGGTGRAGGATCTGGGACCCCTGGGTGAACTG 198
QY          12.1 ACCGAGCAGCACTGGGACCGGACGGTGRAGGATCTGGGACCCCTGGGTGAACTG 180
Db          19.9 CGGGGAGCAGCACTAACAGGACCAAGGGTCTGGGTCAGGGACCATCTGGCAC 258
QY          18.1 CGGGGAGCAGCACTAACAGGACCAAGGGTCTGGGTCAGGGACCATCTGGCAC 240
Db          25.9 CCACAGGTTCAACAGGCCAGATCGAGGAGCATGGCCCTGCTGGAGGAGGCC 318
QY          24.1 CCACAGGTTCAACAGGCCAGATCGAGGAGCATGGCCCTGCTGGAGGAGGCC 300
Db          31.9 GTGAACTGCTCCASCGACGTTACCGGTCACCCCTGGGCTTGCTGGGCTTCCC 378
QY          30.1 GTGAACTGCTCCASCGACGTTACCGGTCACCCCTGGGCTTGCTGGGCTTCCC 360
Db          37.9 CCGGGAGATGGCTGGGACTGGTCACTGGTCTGGGAGCTGGGAGCTGGCAC 438
QY          36.1 CCGGGAGATGGCTGGGACTGGTCACTGGGAGCTGGGAGCTGGCAC 420
Db          43.9 CCGGGAGATGGCTGGGACTGGTCACTGGGAGCTGGGAGCTGGCAC 498
QY          42.1 CCGGGAGATGGCTGGGACTGGTCACTGGGAGCTGGGAGCTGGCAC 480
Db          49.9 AAATTCACCTTGCGCTAGCGGAGGACGTCGGCATGTCGTCG 558
QY          48.1 AAATTCACCTTGCGCTAGCGGAGGACGTCGGCATGTCGTCG 540
Db          55.9 TGTGCGGGACACCGGAGGACTCATGGCAAGGAGACCGGGGACACTGGGTGC 618
QY          54.1 TGTGCGGGACACCGGAGGACTCATGGCAAGGAGACCGGGGACACTGGGTGC 600
Db          61.9 AAGGTGAATGGCACCTGGCTGGAGGGGGCTGGTAGCTGGCGAGGGGTG 678
QY          60.1 AAGGTGAATGGCACCTGGCTGGAGGGGGCTGGTAGCTGGCGAGGGGTG 660
Db          67.9 CCCAACCGGCTGGATCTACCCGCGTCACTACTGGATCTGGATCCACCTAT 738
QY          66.1 CCCAACCGGCTGGATCTACCCGCGTCACTACTGGATCTGGATCCACCTAT 720
Db          73.9 GTCCCCAAAGGCC 753
QY          72.1 GTCCCCAAAGGCC 735

RESULT 11
; Sequence 8, Application US/09598982C
; GENERAL INFORMATION:
;   APPLICANT: Niles, Andrew
;   APPLICANT: Maffitt, Mark
;   APPLICANT: Haak-Fredenscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 20
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE: CDS
; NAME/KEY: CDS
; LOCATION: (7) . . (753)
; US-09-598-982C-20
; Query Match 3.7%; Score 28.2; DB 1; Length 771;
; Best Local Similarity 53.1%; Pred. No. 17;
; Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;
; QY          1 GGACCCCTGGAGAAGATCGTGGGGCTCAGGGCCCGAGGAGTGGCC 60
Db          61 113 GAGCCCCCTGGAGAAGATCGTGGGGCTCAGGGCCCGAGGAGTGGCC 54
QY          53 CAGGTGAGCCCTGGAGTCCAGGCCATACTGGATGCACTCTGGGGGCTC 113
Db          53 CAGGTGAGCCCTGGAGTCCAGGCCATACTGGATGCACTCTGGGGGCTC 1

RESULT 12
; Sequence 8, Application US/09598982C
; US-09-598-982C-20/c
; Sequence 20, Application US/09598982C
; GENERAL INFORMATION:
;   APPLICANT: Niles, Andrew
;   APPLICANT: Maffitt, Mark
;   APPLICANT: Haak-Fredenscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; LOCATION: (7) . . (753)
; US-09-598-982C-8/c
; US-09-598-982C-22/c
; Sequence 22, Application US/09598982C
; GENERAL INFORMATION:
;   APPLICANT: Niles, Andrew
;   APPLICANT: Maffitt, Mark
;   APPLICANT: Haak-Fredenscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 22
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS

```

Query Match 3.7%; Score 28.2; DB 1; Length 771;
 Best Local Similarity 53.1%; Pred. No. 17; ;
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

RESULT 14
 US-09-598-982C-24/C
 Sequence 24, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 APPLICANT: Haak-Frendcho, Mary
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 TITLE OF INVENTION: AND METHODS OF MAKING SAME
 FILE REFERENCE: 34506-104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIORITY APPLICATION NUMBER: 09/079, 970
 PRIOR FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO 24
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (71)..(753)

US-09-598-982C-24
 Query Match 3.7%; Score 28.2; DB 1; Length 771;
 Best Local Similarity 53.1%; Pred. No. 17; ;
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

RESULT 15
 US-09-598-982C-26/C
 Sequence 26, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 APPLICANT: Haak-Frendcho, Mary
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 TITLE OF INVENTION: AND METHODS OF MAKING SAME
 FILE REFERENCE: 34506-104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIORITY APPLICATION NUMBER: 09/079, 970
 PRIOR FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO 26
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:

RESULT 16
 US-09-598-982C-35/C
 Sequence 35, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 APPLICANT: Haak-Frendcho, Mary
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 TITLE OF INVENTION: AND METHODS OF MAKING SAME
 FILE REFERENCE: 34506-104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIORITY APPLICATION NUMBER: 09/079, 970
 PRIOR FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO 36
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: CDS
 LOCATION: (71)..(753)

US-09-598-982C-35
 Query Match 3.7%; Score 28.2; DB 1; Length 771;
 Best Local Similarity 53.1%; Pred. No. 17; ;
 Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

RESULT 17
 US-09-598-982C-38/C
 Sequence 38, Application US/09598982C
 GENERAL INFORMATION:
 APPLICANT: Niles, Andrew
 APPLICANT: Maffitt, Mark
 APPLICANT: Haak-Frendcho, Mary
 TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 TITLE OF INVENTION: AND METHODS OF MAKING SAME
 FILE REFERENCE: 34506-104
 CURRENT APPLICATION NUMBER: US/09/598, 982C
 CURRENT FILING DATE: 2000-06-21
 PRIORITY APPLICATION NUMBER: 09/079, 970
 PRIOR FILING DATE: 1998-04-15
 NUMBER OF SEQ ID NOS: 52
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO 26
 LENGTH: 771
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:

US-09-598-982C-38

ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)

Query Match 3.7%; Score 28.2; DB 1; length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GAGCCCCCTCGAGAAAAGATCTCGGGGTTCAGAGGCCCCAGGAACTGGCCCTGG 60
Db 113 GAGCCCGCGAGAAGTGCATCCGATGATGCTGGCGCTGACTCTCAGGTCACCTGCCGGC 54
QY 61 CAGGTGAGCTGAGATGTCACGCCATACTGATGACTCTGCTGGGGCTC 113
Db 53 CACTTGCTCTGGGGCTCTGACCCCGAGGATCTTCTGAGGGGCC 1

RESULT 18

US-09-598-982C-40/c

Sequence 40, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Haak-Frederch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 40
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GAGCCCCCTCGAGAAAAGATCTCGGGGTTCAGAGGCCCCAGGAACTGGCCCTGG 60
Db 113 GAGCCCGCGAGAAGTGCATCCGATGATGCTGGCGCTGACTCTCAGGTCACCTGCCGGC 54
QY 61 CAGGTGAGCTGAGATGTCACGCCATACTGATGACTCTGCTGGGGCTC 113
Db 53 CACTTGCTCTGGGGCTCTGACCCCGAGGATCTTCTGAGGGGCC 1

RESULT 19

US-09-598-982C-42/c

Sequence 42, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frederch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 10
LENGTH: 735
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(735)

Query Match 3.3%; Score 25.6; DB 1; Length 735;
Best Local Similarity 52.4%; Pred. No. 18;
Matches 99; Conservative 0; Mismatches 84; Indels 6; Gaps 2;

QY 1 GAGCCCCCTCGAGAAAAGATCTCGGGGTTCAGAGGCCCCAGGAACTGGCCCTGG 60
Db 113 GAGCCCGCGAGAAGTGCATCCGATGATGCTGGCGCTGACTCTCAGGTCACCTGCCGGC 54
QY 61 CAGGTGAGCTGAGATGTCACGCCATACTGATGACTCTGCTGGGGCTC 113
Db 53 CACTTGCTCTGGGGCTCTGACCCCGAGGATCTTCTGAGGGGCC 1

RESULT 19

US-09-598-982C-42/c

Sequence 42, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frederch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52

US-09-598-982C-42

Software: PatentIn version 3.3
SEQ ID NO: 42
LENGTH: 771
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (7)..(753)

Query Match 3.7%; Score 28.2; DB 1; Length 771;
Best Local Similarity 53.1%; Pred. No. 17;
Matches 60; Conservative 0; Mismatches 53; Indels 0; Gaps 0;

QY 1 GAGCCCCCTCGAGAAAAGATCTCGGGGTTCAGAGGCCCCAGGAACTGGCCCTGG 60
Db 113 GAGCCCGCGAGAAGTGCATCCGATGATGCTGGCGCTGACTCTCAGGTCACCTGCCGGC 54
QY 61 CAGGTGAGCTGAGATGTCACGCCATACTGATGACTCTGCTGGGGCTC 113
Db 53 CACTTGCTCTGGGGCTCTGACCCCGAGGATCTTCTGAGGGGCC 1

RESULT 20

US-09-598-982C-10/c

Sequence 10, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frederch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 10
LENGTH: 735
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(735)

Query Match 3.3%; Score 25.6; DB 1; Length 735;
Best Local Similarity 52.4%; Pred. No. 18;
Matches 99; Conservative 0; Mismatches 84; Indels 6; Gaps 2;

QY 1 GAGCCCCCTCGAGAAAAGATCTCGGGGTTCAGAGGCCCCAGGAACTGGCCCTGG 60
Db 286 GGGGACATCGCCCTGCTGGAGCTGGAGGAGCCGGTAACCTCTCAGGCCACGTCACAGC 345
QY 346 GGGGACCTTCACCTGCTCGAGGAATGCGCTGGAGGAGCCGGTAACATCACTGTCACA- 396
Db 453 GGGGACCTTCACCTGCTCGAGGAATGCGCTGGAGGAGCCGGTAACATCACTGTCACA- 396
QY 395 -TGGCCCTAGCCAGCTGACCCGAGGATCTTCTGAGGGGG 337
Db 406 TGGGGGA--TGTGCAACATAATGAGGCGCTTCCACCGCAATTCTCTGAGAAGGGTG 462
QY 463 AAGGTCTCC 471
Db 336 CAGGGGACCGGTGGAGCAGGAGCTGGAGACCTTACCGGGCTCTCAGCTCCAGCAGGGC 277
Db 276 GATGCGC 268

Search completed: August 26, 2005, 12:32:37
Job time : 3.81314 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model
Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 seconds
6.180 Million cell updates/sec

Title: US-09-598-982C-9
Perfect score: 1397
Sequence: 1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP 249

Scoring table: BLOSUM62
Gapop 10.0 , Gapext. 0.5
Searched: 10 seqs, 2486 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0
Maximum DB seq length: inf

Post-processing: Minimum Match 0%
Listing first 200 summaries

Database : US09598982C_rev.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1397	100.0	249	1	US-09-598-982C-9
2	1394	99.8	249	1	US-09-598-982C-25
3	1394	99.8	249	1	US-09-598-982C-27
4	1389	99.4	249	1	US-09-598-982C-23
5	1389	99.4	249	1	US-09-598-982C-41
6	1389	99.4	249	1	US-09-598-982C-43
7	1387	99.3	249	1	US-09-598-982C-21
8	1384	99.1	249	1	US-09-598-982C-39
9	1382	98.9	249	1	US-09-598-982C-37
10	1378	98.6	245	1	US-09-598-982C-11

ALIGNMENTS

Query	Match	Score	Best Local Similarity	Score	DB	ID	Description
US-09-598-982C-9	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	Sequence 9, Application US/09598982C
Sequence 9, Application US/09598982C	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	GENERAL INFORMATION:
GENERAL INFORMATION:	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT APPLICATION NUMBER: US/09/598, 982C	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	CURRENT FILING DATE: 2000-06-21
CURRENT FILING DATE: 2000-06-21	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR APPLICATION NUMBER: 09/079, 970	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	PRIOR FILING DATE: 1998-04-15
PRIOR FILING DATE: 1998-04-15	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	NUMBER OF SEQ ID NOS: 52
NUMBER OF SEQ ID NOS: 52	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	SOFTWARE: PatentIn version 3.3
SOFTWARE: PatentIn version 3.3	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	SEQ ID NO 25
SEQ ID NO 25	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	LENGTH: 249
LENGTH: 249	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TYPE: PRT
TYPE: PRT	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	ORGANISM: Homo sapiens
ORGANISM: Homo sapiens	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TITLE OF INVENTION: AND METHODS OF MAKING SAME
TITLE OF INVENTION: AND METHODS OF MAKING SAME	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	FILE REFERENCE: 34506_1-04
FILE REFERENCE: 34506_1-04	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	SEQUENCE 9, Application US/09598982C
SEQUENCE 9, Application US/09598982C	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	GENERAL INFORMATION:
GENERAL INFORMATION:	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Niles, Andrew
APPLICANT: Niles, Andrew	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Maffitt, Mark
APPLICANT: Maffitt, Mark	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TYPE: PRT
TYPE: PRT	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	ORGANISM: Homo sapiens
ORGANISM: Homo sapiens	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	FILE REFERENCE: 34506_1-04
FILE REFERENCE: 34506_1-04	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	SEQUENCE 9, Application US/09598982C
SEQUENCE 9, Application US/09598982C	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	GENERAL INFORMATION:
GENERAL INFORMATION:	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Niles, Andrew
APPLICANT: Niles, Andrew	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Maffitt, Mark
APPLICANT: Maffitt, Mark	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TYPE: PRT
TYPE: PRT	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	ORGANISM: Homo sapiens
ORGANISM: Homo sapiens	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	FILE REFERENCE: 34506_1-04
FILE REFERENCE: 34506_1-04	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	SEQUENCE 9, Application US/09598982C
SEQUENCE 9, Application US/09598982C	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	GENERAL INFORMATION:
GENERAL INFORMATION:	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Niles, Andrew
APPLICANT: Niles, Andrew	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Maffitt, Mark
APPLICANT: Maffitt, Mark	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TYPE: PRT
TYPE: PRT	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	ORGANISM: Homo sapiens
ORGANISM: Homo sapiens	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	FILE REFERENCE: 34506_1-04
FILE REFERENCE: 34506_1-04	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	SEQUENCE 9, Application US/09598982C
SEQUENCE 9, Application US/09598982C	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	GENERAL INFORMATION:
GENERAL INFORMATION:	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Niles, Andrew
APPLICANT: Niles, Andrew	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Maffitt, Mark
APPLICANT: Maffitt, Mark	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TYPE: PRT
TYPE: PRT	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	ORGANISM: Homo sapiens
ORGANISM: Homo sapiens	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	FILE REFERENCE: 34506_1-04
FILE REFERENCE: 34506_1-04	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	SEQUENCE 9, Application US/09598982C
SEQUENCE 9, Application US/09598982C	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	GENERAL INFORMATION:
GENERAL INFORMATION:	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Niles, Andrew
APPLICANT: Niles, Andrew	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Maffitt, Mark
APPLICANT: Maffitt, Mark	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TYPE: PRT
TYPE: PRT	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	ORGANISM: Homo sapiens
ORGANISM: Homo sapiens	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	FILE REFERENCE: 34506_1-04
FILE REFERENCE: 34506_1-04	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	SEQUENCE 9, Application US/09598982C
SEQUENCE 9, Application US/09598982C	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	GENERAL INFORMATION:
GENERAL INFORMATION:	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Niles, Andrew
APPLICANT: Niles, Andrew	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Maffitt, Mark
APPLICANT: Maffitt, Mark	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	APPLICANT: Haak-Frendscho, Mary
APPLICANT: Haak-Frendscho, Mary	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TYPE: PRT
TYPE: PRT	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	ORGANISM: Homo sapiens
ORGANISM: Homo sapiens	1 LERKRIVGGEAPRSKWPWQV IYTRVTVYDWHHYPKCP	249	99.8%	1394	1	US-09-598-982C-9	TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME	1 LERKRIVGGEAPRSKWPWQ						

Db 241 IHHYVPKKP 249

RESULT 3

US-09-598-982C-27

; Sequence 27, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Nilles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; FILE REFERENCE: 34506-104

; CURRENT APPLICATION NUMBER: US/09/598, 982C

; CURRENT FILING DATE: 2000-06-21

; PRIOR APPLICATION NUMBER: 09/079, 970

; PRIOR FILING DATE: 1998-04-15

; NUMBER OF SEQ ID NOS: 52

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 27

; LENGTH: 249

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-598-982C-27

Query Match 99.8%; Score 1394; DB 1; Length 249;

Best Local Similarity 99.6%; Pred. No: 0; Mismatches 1; Indels 0; Gaps 0;

Matches 248; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEKRIVGGQAPRSKPKWQVSLRHFQPMWHFCGSSLIHPQWLTAAHCVGPDVKDLAAL 60

Db 61 RVLQRBOHLYQDQLIPVARIIVHQFTQAGDIALBLEEPVKVSSHVHTVLPPAS 120

Db 61 RVLQRQHLYQDQLIPVSRIVHEQFTQAGDIALBLEEPVKVSSHVHTVLPPAS 120

QY 121 ETFPGMPCWVGMGDVNDERLPPPKQVKVPIMHICAKYHGAATGDDVRWR 180

Db 121 ETFPGMPCWVGMGDVNDERLPPPKQVKVPIMHICAKYHGAATGDDVRWR 180

QY 181 DDMLCAGNTRRDSCGDSGSPLVCKUNGTLQAGVWSMGECAQPNRPGIYTRTYLWD 240

Db 181 DDMLCAGNTRRDSCGDSGSPLVCKUNGTLQAGVWSMGECAQPNRPGIYTRTYLWD 240

QY 241 IHHYPKKP 249

Db 241 IHHYPKKP 249

Db 241 IHHYVPKKP 249

US-09-598-982C-41

Query Match 99.4%; Score 1389; DB 1; Length 249;

Best Local Similarity 99.2%; Pred. No: 0; Mismatches 1; Indels 0; Gaps 0;

Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEKRIVGGQAPRSKPKWQVSLRHFQPMWHFCGSSLIHPQWLTAAHCVGPDVKDLAAL 60

Db 1 LEKRIVGGQAPRSKPKWQVSLRHFQPMWHFCGSSLIHPQWLTAAHCVGPDVKDLAAL 60

QY 61 RVLQRQHLYQDQLIPVARIIVHQFTQAGDIALBLEEPVKVSSHVHTVLPPAS 120

Db 61 RVLQRQHLYQDQLIPVSRIVHEQFTQAGDIALBLEEPVKVSSHVHTVLPPAS 120

QY 121 ETFPGMPCWVGMGDVNDERLPPPKQVKVPIMHICAKYHGAATGDDVRWR 180

Db 121 ETFPGMPCWVGMGDVNDERLPPPKQVKVPIMHICAKYHGAATGDDVRWR 180

QY 181 DDMLCAGNTRRDSCGDSGSPLVCKUNGTLQAGVWSMGECAQPNRPGIYTRTYLWD 240

Db 181 DDMLCAGNTRRDSCGDSGSPLVCKUNGTLQAGVWSMGECAQPNRPGIYTRTYLWD 240

QY 241 IHHYPKKP 249

Db 241 IHHYPKKP 249

Db 241 IHHYVPKKP 249

RESULT 5

US-09-598-982C-41

; Sequence 41, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Nilles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; FILE REFERENCE: 34506-104

; CURRENT APPLICATION NUMBER: 09/079, 970

; CURRENT FILING DATE: 1998-04-15

; NUMBER OF SEQ ID NOS: 52

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 41

; LENGTH: 249

; TYPE: PRT

; ORGANISM: Homo Sapiens

US-09-598-982C-41

Query Match 99.4%; Score 1389; DB 1; Length 249;

Best Local Similarity 99.2%; Pred. No: 0; Mismatches 1; Indels 1; Gaps 0;

Matches 247; Conservative 1; Mismatches 1; Indels 1; Gaps 0;

QY 1 LEKRIVGGQAPRSKPKWQVSLRHFQPMWHFCGSSLIHPQWLTAAHCVGPDVKDLAAL 60

Db 1 LEKRIVGGQAPRSKPKWQVSLRHFQPMWHFCGSSLIHPQWLTAAHCVGPDVKDLAAL 60

QY 61 RVLQRQHLYQDQLIPVARIIVHQFTQAGDIALBLEEPVKVSSHVHTVLPPAS 120

Db 61 RVLQRQHLYQDQLIPVSRIVHEQFTQAGDIALBLEEPVKVSSHVHTVLPPAS 120

QY 121 ETFPGMPCWVGMGDVNDERLPPPKQVKVPIMHICAKYHGAATGDDVRWR 180

Db 121 ETFPGMPCWVGMGDVNDERLPPPKQVKVPIMHICAKYHGAATGDDVRWR 180

QY 181 DDMLCAGNTRRDSCGDSGSPLVCKUNGTLQAGVWSMGECAQPNRPGIYTRTYLWD 240

Db 181 DDMLCAGNTRRDSCGDSGSPLVCKUNGTLQAGVWSMGECAQPNRPGIYTRTYLWD 240

QY 241 IHHYPKKP 249

Db 241 IHHYPKKP 249

Db 241 IHHYVPKKP 249

Db 241 IHHYVPKKP 249

Db 241 IHHYVPKKP 249

RESULT 6

US-09-598-982C-43

; Sequence 6, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Nilles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; FILE REFERENCE: 34506-104

; CURRENT APPLICATION NUMBER: 09/079, 970

; CURRENT FILING DATE: 1998-04-15

; NUMBER OF SEQ ID NOS: 52

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 23

; LENGTH: 249

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-598-982C-23

Query Match 99.4%; Score 1389; DB 1; Length 249;

Best Local Similarity 99.2%; Pred. No: 0; Mismatches 1; Indels 1; Gaps 0;

Matches 247; Conservative 1; Mismatches 1; Indels 1; Gaps 0;

QY 1 LEKRIVGGQAPRSKPKWQVSLRHFQPMWHFCGSSLIHPQWLTAAHCVGPDVKDLAAL 60

Db 1 LEKRIVGGQAPRSKPKWQVSLRHFQPMWHFCGSSLIHPQWLTAAHCVGPDVKDLAAL 60

QY 61 RVLQRQHLYQDQLIPVARIIVHQFTQAGDIALBLEEPVKVSSHVHTVLPPAS 120

Db 61 RVLQRQHLYQDQLIPVSRIVHEQFTQAGDIALBLEEPVKVSSHVHTVLPPAS 120

QY 121 ETFPGMPCWVGMGDVNDERLPPPKQVKVPIMHICAKYHGAATGDDVRWR 180

Db 121 ETFPGMPCWVGMGDVNDERLPPPKQVKVPIMHICAKYHGAATGDDVRWR 180

QY 181 DDMLCAGNTRRDSCGDSGSPLVCKUNGTLQAGVWSMGECAQPNRPGIYTRTYLWD 240

Db 181 DDMLCAGNTRRDSCGDSGSPLVCKUNGTLQAGVWSMGECAQPNRPGIYTRTYLWD 240

QY 241 IHHYPKKP 249

Db 241 IHHYPKKP 249

Db 241 IHHYVPKKP 249

Db 241 IHHYVPKKP 249

```
; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-43
```

Query Match 99.4%; Score 1389; DB 1; Length 249;

Best Local Similarity 99.2%; Pred. No. 0; Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

```
QY 1 LERKIVGGQEAAPSKWPKWQNSLRVHGFYWMHFCGGSILHPQLWTAACVGRDVKDAAAL 60
Db 1 LERKIVGGQEAAPSKWPKWQNSLRVHGFYWMHFCGGSILHPQLWTAACVGRDVKDAAAL 60
QY 1 LERKIVGGQEAAPSKWPKWQNSLRVHGFYWMHFCGGSILHPQLWTAACVGRDVKDAAAL 60
Db 1 LERKIVGGQEAAPSKWPKWQNSLRVHGFYWMHFCGGSILHPQLWTAACVGRDVKDAAAL 60
QY 61 RVQLEHQHLYYQDQLPVSIRIHPQFTAQIGADIALELPVKUSSHVHTVLPPAS 120
Db 61 RVQLEHQHLYYQDQLPVSIRIHPQFTAQIGADIALELPVKUSSHVHTVLPPAS 120
QY 61 RVQLEHQHLYYQDQLPVSIRIHPQFTAQIGADIALELPVKUSSHVHTVLPPAS 120
Db 61 RVQLEHQHLYYQDQLPVSIRIHPQFTAQIGADIALELPVKUSSHVHTVLPPAS 120
QY 121 ETFRPGMPCWVTCGWDVNDERLPPPEPLQKVPIPMENHICAKYHGLAYTDDVRIVR 180
Db 121 ETFRPGMPCWVTCGWDVNDERLPPPEPLQKVPIPMENHICAKYHGLAYTDDVRIVR 180
QY 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
Db 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
QY 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
Db 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
QY 241 IHHVPKKP 249
Db 241 IHHVPKKP 249
QY 241 IHHVPKKP 249
Db 241 IHHVPKKP 249
```

RESULT 8

US-09-598-982C-39

```
; Sequence 39, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIOR APPLICATION NUMBER: 09/079, 970
; CURRENT FILING DATE: 2000-06-21
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-39
```

Query Match 99.1%; Score 1384; DB 1; Length 249;

Best Local Similarity 99.2%; Pred. No. 0; Matches 247; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```
QY 1 LERKIVGGQEAAPSKWPKWQNSLRVHGFYWMHFCGGSILHPQLWTAACVGRDVKDAAAL 60
Db 1 LERKIVGGQEAAPSKWPKWQNSLRVHGFYWMHFCGGSILHPQLWTAACVGRDVKDAAAL 60
QY 61 RVQLEHQHLYYQDQLPVSIRIHPQFTAQIGADIALELPVKUSSHVHTVLPPAS 120
Db 61 RVQLEHQHLYYQDQLPVSIRIHPQFTAQIGADIALELPVKUSSHVHTVLPPAS 120
QY 61 RVQLEHQHLYYQDQLPVSIRIHPQFTAQIGADIALELPVKUSSHVHTVLPPAS 120
Db 61 RVQLEHQHLYYQDQLPVSIRIHPQFTAQIGADIALELPVKUSSHVHTVLPPAS 120
QY 121 ETFRPGMPCWVTCGWDVNDERLPPPEPLQKVPIPMENHICAKYHGLAYTDDVRIVR 180
Db 121 ETFRPGMPCWVTCGWDVNDERLPPPEPLQKVPIPMENHICAKYHGLAYTDDVRIVR 180
QY 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
Db 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
QY 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
Db 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
QY 241 IHHVPKKE 249
Db 241 IHHVPKKE 249
QY 241 IHHVPKKE 249
Db 241 IHHVPKKE 249
```

RESULT 9

US-09-598-982C-37

```
; Sequence 37, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
```

```
; Sequence 21, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-21
```

Query Match 99.3%; Score 1387; DB 1; Length 249;

Best Local Similarity 99.6%; Pred. No. 0; Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```
QY 1 LERKIVGGQEAAPSKWPKWQNSLRVHGFYWMHFCGGSILHPQLWTAACVGRDVKDAAAL 60
Db 61 RVQLEHQHLYYQDQLPVSIRIHPQFTAQIGADIALELPVKUSSHVHTVLPPAS 120
QY 61 RVQLEHQHLYYQDQLPVSIRIHPQFTAQIGADIALELPVKUSSHVHTVLPPAS 120
Db 61 RVQLEHQHLYYQDQLPVSIRIHPQFTAQIGADIALELPVKUSSHVHTVLPPAS 120
QY 121 ETFRPGMPCWVTCGWDVNDERLPPPEPLQKVPIPMENHICAKYHGLAYTDDVRIVR 180
Db 121 ETFRPGMPCWVTCGWDVNDERLPPPEPLQKVPIPMENHICAKYHGLAYTDDVRIVR 180
QY 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
Db 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
QY 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
Db 181 DDMLCAGNTRRDSCQGDSGGPLVCKNGTWLQAGVWSWGECAQPNRPGIYRTVTYLDW 240
QY 241 IHHVPKKE 249
Db 241 IHHVPKKE 249
QY 241 IHHVPKKE 249
Db 241 IHHVPKKE 249
```

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 3 7
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-37

Query Match 98.9% Score 1382; DB 1; length 249;
Best Local Similarity 99.2%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
Matches 247; Conservative 0;

QY 1 LEKRVIVGQEAQDRSKWPMQVSIRVHGRGYMMHFCGGSLIHPQWLTIAHCYQPPDKDAA 60
Db 1 LERKIVGQEARSKWPMQVSIRVHGRGYMMHFCGGSLIHPQWLTAACTYQPPDKDAA 60

QY 61 RYQREQLYYDQDQPLVSRITVHPQTYTAQTGADTALLELEPVPVKSSEHVTWILPPAS 120
Db 61 RYQREQLYYDQDQPLVSRITVHPQTYTAQTGADTALLELEPVPVKSSEHVTWILPPAS 120

121 EFPQPGMPCWVYQWGDYNDELLPPPLKQVKPIMENHICDAKTHLGAVTGDDYRIV 180
Db 121 EFPQPGMPCWVYQWGDYNDELLPPPLKQVKPIMENHICDAKTHLGAVTGDDYRIV 180

QY 181 DDMLCAGNTRRDISCGDSSGPVICKUNGTLQAGVVSWEGLCAQPNRPGIYTRVTVYLDW 240
Db 181 DDMLCAGNTRRDISCGDSSGPVICKUNGTLQAGVVSWEGLCAQPNRPGIYTRVTVYLDW 240

QY 241 IHYVPKKP 249
Db 241 IHYVPKKP 249

RESULT 10

US-09-598-982C-11

; Sequence 11, Application US/09598982C

; GENERIC INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34506_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 091079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3

; SEQ ID NO 11 LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-11

Query Match 98.6%; Score 1378; DB 1; length 245;
Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 TNGQEARSKWPMQVSIRVHGRGYMMHFCGGSLIHPQWLTAAHCYQPPDKDAAIRVQ 64
Db 5 TNGQEARSKWPMQVSIRVHGRGYMMHFCGGSLIHPQWLTAAHCYQPPDKDAAIRVQ 64

QY 65 RQHLYYDQDQPLVSRITVHPQTYAIGAIDALLSEPPVTRVSSHVHTWILPPASETP 124
Db 65 RQHLYYDQDQPLVSRITVHPQTYAIGAIDALLSEPPVTRVSSHVHTWILPPASETP 124

61 RQHLYYDQDQPLVSRITVHPQTYAIGAIDALLSEPPVTRVSSHVHTWILPPASETP 120

Search completed: August 26, 2005, 12:29:15
Job time : 1.10016 secs

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Genetcore version 5.1.6

OM protein - protein search, using sw model 1

Run on: August 26, 2005, 12:29:12 ; Search time 0.0985519 Seconds
(without alignments)
6.180 Million cell updates/sec

Title: US-09-598-982C-11
Sequence: 1 IVGGQEARSKWPMQVSIRVHGRGYMMHFCGGSLIHPQWLTAACTYQPPDKDAA 245

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 10 seqs, 2485 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0
Maximum DB seq length: inf

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

Database : US09598982C_rev.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	1378	100.0	245 1 US-09-598-982C-11	Sequence 11, Appl
2	1378	100.0	249 1 US-09-598-982C-9	Sequence 9, Appl
3	1375	99.8	249 1 US-09-598-982C-25	Sequence 25, Appl
4	1375	99.8	249 1 US-09-598-982C-27	Sequence 27, Appl
5	1370	99.4	249 1 US-09-598-982C-23	Sequence 23, Appl
6	1370	99.4	249 1 US-09-598-982C-41	Sequence 41, Appl
7	1370	99.4	249 1 US-09-598-982C-43	Sequence 43, Appl
8	1368	99.3	249 1 US-09-598-982C-21	Sequence 21, Appl
9	1365	99.1	249 1 US-09-598-982C-39	Sequence 39, Appl
10	1363	98.9	249 1 US-09-598-982C-37	Sequence 37, Appl

ALIGNMENTS

RESULT 1
US-09-598-982C-11

; Sequence 11, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_1_04
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SEQ ID NO 11
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-11

Query Match 100.0%; Score 1378; DB 1; Length 245;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
Matches 245; Conservative 0; Mis 0; I 0; Gaps 0;

QY 1 IVGGQAEPRSKWPKWQVSRLRVHGPYWMHCGGSLIHPQWVLTAAHCVGPDVKDQAALRVQ 60
Db 1 IVGGQAEPRSKWPKWQVSRLRVHGPYWMHCGGSLIHPQWVLTAAHCVGPDVKDQAALRVQ 60
QY 61 REQLYYQQDLPVSRIVHGPQTYTAQGADIALELPVKVSSHVHTLPPASETFP 120
Db 61 REQLYYQQDLPVSRIVHGPQTYTAQGADIALELPVKVSSHVHTLPPASETFP 120
QY 121 PGMCWVUTGWDVNDERLPPPLKQVTPIMENHICAKTHLGAYTGDYRIVRDML 180
Db 121 PGMCWVUTGWDVNDERLPPPLKQVTPIMENHICAKTHLGAYTGDYRIVRDML 180
QY 181 CAGNTRRDSCQSGGPGVCKNGTWLQAGVWSWGECAQPNRPGIVTRVYLDWIHY 240
Db 181 CAGNTRRDSCQSGGPGVCKNGTWLQAGVWSWGECAQPNRPGIVTRVYLDWIHY 240
QY 241 VPKKP 245
Db 241 VPKKP 245
QY 241 VPKKP 245
Db 241 VPKKP 245

RESULT 3
US-09-598-982C-25

; Sequence 25, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 25
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-25

Query Match 99.8%; Score 1375; DB 1; Length 249;

Best Local Similarity 99.6%; Pred. No. 0; Mismatches 1; Conservative 0; Mis 0; I 0; Gaps 0; Indels 0; Gaps 0;
Matches 244; Conservative 0; Mis 1; I 0; Gaps 0; Indels 0; Gaps 0;

QY 1 IVGGQAEPRSKWPKWQVSRLRVHGPYWMHCGGSLIHPQWVLTAAHCVGPDVKDQAALRVQ 60
Db 5 IVGGQAEPRSKWPKWQVSRLRVHGPYWMHCGGSLIHPQWVLTAAHCVGPDVKDQAALRVQ 64
QY 61 REQLYYQQDLPVSRIVHGPQTYTAQGADIALELPVKVSSHVHTLPPASETFP 120
Db 65 REQLYYQQDLPVSRIVHGPQTYTAQGADIALELPVKVSSHVHTLPPASETFP 124
QY 121 PGMCWVUTGWDVNDERLPPPLKQVTPIMENHICAKTHLGAYTGDYRIVRDML 180
Db 125 PGMCWVUTGWDVNDERLPPPLKQVTPIMENHICAKTHLGAYTGDYRIVRDML 184
QY 181 CAGNTRRDSCQSGGPGVCKNGTWLQAGVWSWGECAQPNRPGIVTRVYLDWIHY 240
Db 185 CAGNTRRDSCQSGGPGVCKNGTWLQAGVWSWGECAQPNRPGIVTRVYLDWIHY 244
QY 241 VPKKP 245
Db 245 VPKKP 249

RESULT 4
US-09-598-982C-27

; Sequence 27, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_1_04
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SEQ ID NO 9
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-9

Query Match 100.0%; Score 1378; DB 1; Length 249;
Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Conservative 0; Mis 0; I 0; Gaps 0;
Matches 245; Conservative 0; Mis 0; I 0; Gaps 0;
QY 1 IVGGQAEPRSKWPKWQVSRLRVHGPYWMHCGGSLIHPQWVLTAAHCVGPDVKDQAALRVQ 60

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; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-27

Query Match 99.8%; Score 1375; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 244; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy 1 IVGGQEARPSKWPWQVSRLVPGYWMHFCGGSLLHPOWVTAHCYGPVDKDALRVQI
Db 5 IVGGQEARPSKWPWQVSRLVPGYWMHFCGGSLLHPOWVTAHCYGPVDKDALRVQI 64
Qy 61 REQHLYQDQLPVSRITVHPQFTAQIGADIALLELEPPVKVSSHVHTVLPASETP 120
Db 65 REQHLYQDQLPVSRITVHPQFTAQIGADIALLELEPPVKVSSHVHTVLPASETP 124
Qy 121 PGMPCWVTVGWDVNDERLPPPFKLQKVPIHMENHTDAKHLGAYTGDDVRVDDML 180
Db 125 PGMPCWVTVGWDVNDERLPPFLQKVPIHMENHICDAKHLGAYTGDDVRVDDML 184
Qy 181 CAGNTRRDSQCGDSCGPVLUCKVNTWLQAGVSVWGECAQPNRPGIYTRVYLDWIHY 240
Db 185 CAGNTRRDSQCGDSCGPVLUCKVNTWLQAGVSVWGECAQPNRPGIYTRVYLDWIHY 244
Qy 241 VPKKP 245
Db 245 VPKKP 249
; US-09-598-982C-23

RESULT 5
; Sequence 23, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 41
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-41

Query Match 99.4%; Score 1370; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 243; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
Qy 1 IVGGQEARPSKWPWQVSRLVPGYWMHFCGGSLLHPOWVTAHCYGPVDKDALRVQI
Db 5 IVGGQEARPSKWPWQVSRLVPGYWMHFCGGSLLHPOWVTAHCYGPVDKDALRVQI 64
Qy 61 REQHLYQDQLPVSRITVHPQFTAQIGADIALLELEPPVKVSSHVHTVLPASETP 120
Db 65 REQHLYQDQLPVSRITVHPQFTAQIGADIALLELEPPVKVSSHVHTVLPASETP 124
Qy 121 PGMPCWVTVGWDVNDERLPPPFKLQKVPIHMENHTDAKHLGAYTGDDVRVDDML 180
Db 125 PGMPCWVTVGWDVNDERLPPFLQKVPIHMENHICDAKHLGAYTGDDVRVDDML 184
Qy 181 CAGNTRRDSQCGDSCGPVLUCKVNTWLQAGVSVWGECAQPNRPGIYTRVYLDWIHY 240
Db 185 CAGNTRRDSQCGDSCGPVLUCKVNTWLQAGVSVWGECAQPNRPGIYTRVYLDWIHY 244
Qy 241 VPKKP 245
Db 245 VPKKP 249
; US-09-598-982C-43

RESULT 7
; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Prendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21

```

PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-33

Query Match 99.4%; Score 1370; DB 1; Length 249;
; Best Local Similarity 99.2%; Pred. No. 0;
; Matches 243; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 IVGGCOPRSPKWPQVSLRVHGPYMMHFCGSSLIRHQWVLTAAHCVGPDVKDIALRVOL 60
; 5 IVGGCOPRSPKWPQVSLRVHGPYMMHFCGSSLIRHQWVLTAAHCVGPDVKDIALRVOL 64

QY 61 REQHLYQDQLPVSRIVHPQTAQIGADIALLEBPKVSKSHVHTLPASETP 120
; 65 REQHLYQDQLPVSRIVHPQTAQIGADIALLEBPKVSKSHVHTLPASETP 124

Db 121 PGMPCWVITGWDVNDERLPPPLKQVPIVTRQFVYQIGAIDALLEBPKVSKSHVHTLPASETP 180
; 125 PGMPCWVITGWDVNDERLPPPLKQVPIVTRQFVYQIGAIDALLEBPKVSKSHVHTLPASETP 184

QY 181 CAGNTRRDSCQGDGGPLVCKNGTMLQGVVSNRGCAQPQRPGIYTRVTLWIDHYY 240
; 185 CAGNTRRDSCQGDGGPLVCKNGTMLQGVVSNRGCAQPQRPGIYTRVTLWIDHYY 244

QY 241 VPKKP 245
; 245 VPKKP 249

RESULT 8
US-09-598-982C-21

; Sequence 21, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-39

Query Match 99.1%; Score 1365; DB 1; Length 249;
; Best Local Similarity 99.2%; Pred. No. 0;
; Matches 243; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 IVGGCOPRSPKWPQVSLRVHGPYMMHFCGSSLIRHQWVLTAAHCVGPDVKDIALRVOL 60
; 5 IVGGCOPRSPKWPQVSLRVHGPYMMHFCGSSLIRHQWVLTAAHCVGPDVKDIALRVOL 64

QY 61 REQHLYQDQLPVSRIVHPQTAQIGADIALLEBPKVSKSHVHTLPASETP 120
; 65 REQHLYQDQLPVSRIVHPQTAQIGADIALLEBPKVSKSHVHTLPASETP 124

Db 121 PGMPCWVITGWDVNDERLPPPLKQVPIVTRQFVYQIGAIDALLEBPKVSKSHVHTLPASETP 180
; 125 PGMPCWVITGWDVNDERLPPPLKQVPIVTRQFVYQIGAIDALLEBPKVSKSHVHTLPASETP 184

QY 181 CAGNTRRDSCQGDGGPLVCKNGTMLQGVVSNRGCAQPQRPGIYTRVTLWIDHYY 240
; 185 CAGNTRRDSCQGDGGPLVCKNGTMLQGVVSNRGCAQPQRPGIYTRVTLWIDHYY 244

QY 241 VPKEP 245
; 245 VPKEP 249

RESULT 9
US-09-598-982C-39

; Sequence 39, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIORITY APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-39

Query Match 99.3%; Score 1368; DB 1; Length 249;
; Best Local Similarity 99.6%; Pred. No. 0;
; Matches 244; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 IVGGCOPRSPKWPQVSLRVHGPYMMHFCGSSLIRHQWVLTAAHCVGPDVKDIALRVOL 60
; 5 IVGGCOPRSPKWPQVSLRVHGPYMMHFCGSSLIRHQWVLTAAHCVGPDVKDIALRVOL 64

QY 61 REQHLYQDQLPVSRIVHPQTAQIGADIALLEBPKVSKSHVHTLPASETP 120
; 65 REQHLYQDQLPVSRIVHPQTAQIGADIALLEBPKVSKSHVHTLPASETP 124

Db 121 PGMPCWVITGWDVNDERLPPPLKQVPIVTRQFVYQIGAIDALLEBPKVSKSHVHTLPASETP 180
; 125 PGMPCWVITGWDVNDERLPPPLKQVPIVTRQFVYQIGAIDALLEBPKVSKSHVHTLPASETP 184

RESULT 10
US-09-598-982C-37

; Sequence 37, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIORITY APPLICATION NUMBER: 09/079, 970
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 37

LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-37

Query Match
Best Local Similarity 99.2%; Score 1363; DB 1; Length 249;
Matches 243; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 IVGGQEARPKRSPKWPQWSLRVHGPYWMHFCGSSLHPOWVITAHCYGPVDKDLAALRVOL 60
Db 5 IVGGQEARPKRSPKWPQWSLRVHGPYWMHFCGSSLHPOWVITAHCYGPVDKDLAALRVOL 64

QY 61 RQHQLTYDQDILPVSRTIVHPFPTAQIGADIALLEBPKVSSHVHTVLPASETP 120
Db 65 RQHQLTYDQDILPVSRTIVHPFPTAQIGADIALLEBPKVSSHVHTVLPASETP 124

QY 121 PMPCPWVITGNGWGIUDNERLPPPFPLKQVKVPIHMENHICDAKYHGLAYTGDDVRVDRML 180
Db 125 PMPCPWVITGNGWGIUDNERLPPPFPLKQVKVPIHMENHICDAKYHGLAYTGDDVRVDRML 184

QY 181 CGNTRRDSDCGSDGGPLUCKNGTMLQAGVSVWGRGCAQPNRPGIYTTRYLYWHY 240
Db 185 CGNTRRDSDCGSDGGPLUCKNGTMLQAGVSVWGRGCAQPNRPGIYTTRYLYWHY 244

QY 241 VPKKP 245
Db 245 VPKKP 249

Search completed: August 26, 2005, 12:29:15
Job time : 0.095519 SECs

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GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 seconds
; (without alignments)
6.180 Million cell updates/sec

Title: Perfect score: 1393
Sequence: 1 LEKRIVGGQEARPKRSPKWPQW... IVTRVTVYLDWIHHVVPKKP 249

Scoring table: BLOSUM62

Searched: Gapop 10.0 , Gapext 0.5
10 seqs, 2486 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0
Maximum DB seq length: inf

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

Database : US09598982C_rev.pep:*

RESULT 1
US-09-598-982C-21
Sequence 21, Application US/09598982C
; Sequence 21, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506-104
; CURRENT FILING NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-21

Query Match 100.0%; Score 1393; DB 1; Length 249;
Best Local Similarity 100.0%; Score 1393; DB 1; Length 249;
Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEKRIVGGQEARPKRSPKWPQW... IVTRVTVYLDWIHHVVPKKP 249
Db 1 LEKRIVGGQEARPKRSPKWPQW... IVTRVTVYLDWIHHVVPKKP 249

QY 61 RVQLRQHLYDQDILPVSRTIVHPFPTAQIGADIALLEBPKVSSHVHTVLPAS 120
Db 61 RVQLRQHLYDQDILPVSRTIVHPFPTAQIGADIALLEBPKVSSHVHTVLPAS 120

QY 121 BTFFPMPCPWVITGNGWGIUDNERLPPPFPLKQVKVPIHMENHICDAKYHGLAYTGDDVRVDRML 180
Db 121 BTFFPMPCPWVITGNGWGIUDNERLPPPFPLKQVKVPIHMENHICDAKYHGLAYTGDDVRVDRML 180

QY 181 DDMLCGNTRRDSDCGSDGGPLUCKNGTMLQAGVSVWGRGCAQPNRPGIYTTRYLYWHY 240
Db 181 DDMLCGNTRRDSDCGSDGGPLUCKNGTMLQAGVSVWGRGCAQPNRPGIYTTRYLYWHY 240

QY 241 IHHVPKKP 249
Db 241 IHHVPKKP 249

QY 241 IHHVPKKP 249

RESULT 2
US-09-598-982C-37
; Sequence 37, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506-104
; CURRENT FILING NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21

Result No. 1 Score 100.0 Match Length 249 DB ID US-09-598-982C-21 Description Sequence 21, Appl 1 1393 100.0 249 1 US-09-598-982C-21 Sequence 21, Appl 1 1374 98.6 249 1 US-09-598-982C-39 Sequence 43, Appl 1 1379 99.0 249 1 US-09-598-982C-41 Sequence 41, Appl 1 1374 98.6 249 1 US-09-598-982C-39 Sequence 39, Appl 1 1368 98.2 245 1 US-09-598-982C-11 Sequence 11, Appl 1

SUMMARIES

```

; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 37
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-37

Query Match 99.6%; Score 1388; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No: 0; Mismatches 0; Indels 0; Gaps 0;
Matches 248; Conservative
Qy 1 LEKRTIVGGQEARPSKWPQVSLRVRHGPYWMHFCGGSЛИHPOWLTAAACVGPVDKDAL 60
Db 1 LEKRIVGGQEARPSKWPQVSLRVRHGPYWMHFCGGSЛИHPOWLTAAACVGPVDKDAL 60
Qy 61 RVQLRQHLYYQDQLPVSRLTIVHPQFPTQYTAQIGADIALLELESPVKVSSAVHTVTLPAS 120
Db 61 RVQLRQHLYYQDQLPVSRLTIVHPQFPTQYTAQIGADIALLELESPVKVSSAVHTVTLPAS 120
Qy 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Db 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Qy 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Db 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Qy 241 IHHVVKKP 249
Db 241 IHHVVKKP 249
Db 241 IHHVVKKP 249

RESULT 3
US-09-598-982C-9
Sequence 9, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendschio, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 25
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-25

Query Match 99.4%; Score 1384; DB 1; Length 249;
Best Local Similarity 99.4%; Pred. No: 0; Mismatches 1; Indels 0; Gaps 0;
Matches 247; Conservative
Qy 1 LEKRTIVGGQEARPSKWPQVSLRVRHGPYWMHFCGGSЛИHPOWLTAAACVGPVDKDAL 60
Db 1 LEKRTIVGGQEARPSKWPQVSLRVRHGPYWMHFCGGSЛИHPOWLTAAACVGPVDKDAL 60
Qy 61 RVQLRQHLYYQDQLPVSRLTIVHPQFPTQYTAQIGADIALLELESPVKVSSAVHTVTLPAS 120
Db 61 RVQLRQHLYYQDQLPVSRLTIVHPQFPTQYTAQIGADIALLELESPVKVSSAVHTVTLPAS 120
Qy 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Db 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Qy 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Db 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Qy 241 IHHVVKKP 249
Db 241 IHHVVKKP 249
Db 241 IHHVVKKP 249

RESULT 4
US-09-598-982C-25
Sequence 25, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendschio, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 25
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-25

Query Match 99.4%; Score 1384; DB 1; Length 249;
Best Local Similarity 99.4%; Pred. No: 0; Mismatches 1; Indels 0; Gaps 0;
Matches 247; Conservative
Qy 1 LEKRTIVGGQEARPSKWPQVSLRVRHGPYWMHFCGGSЛИHPOWLTAAACVGPVDKDAL 60
Db 1 LEKRTIVGGQEARPSKWPQVSLRVRHGPYWMHFCGGSЛИHPOWLTAAACVGPVDKDAL 60
Qy 61 RVQLRQHLYYQDQLPVSRLTIVHPQFPTQYTAQIGADIALLELESPVKVSSAVHTVTLPAS 120
Db 61 RVQLRQHLYYQDQLPVSRLTIVHPQFPTQYTAQIGADIALLELESPVKVSSAVHTVTLPAS 120
Qy 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Db 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Qy 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Db 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Qy 241 IHHVVKKP 249
Db 241 IHHVVKKP 249
Db 241 IHHVVKKP 249

RESULT 5
US-09-598-982C-27
Sequence 27, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendschio, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 27

Query Match 99.6%; Score 1387; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No: 0; Mismatches 1; Indels 0; Gaps 0;
Matches 248; Conservative
Qy 1 LEKRTIVGGQEARPSKWPQVSLRVRHGPYWMHFCGGSЛИHPOWLTAAACVGPVDKDAL 60
Db 1 LEKRTIVGGQEARPSKWPQVSLRVRHGPYWMHFCGGSЛИHPOWLTAAACVGPVDKDAL 60
Qy 61 RVQLRQHLYYQDQLPVSRLTIVHPQFPTQYTAQIGADIALLELESPVKVSSAVHTVTLPAS 120
Db 61 RVQLRQHLYYQDQLPVSRLTIVHPQFPTQYTAQIGADIALLELESPVKVSSAVHTVTLPAS 120
Qy 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Db 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Qy 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Db 121 ETPPPGMPCWVGTGMDVNDRLPPPLKQVVKUPIMENHICDAKYHLAGYTGDVRIVR 180
Qy 241 IHHVVKKP 249
Db 241 IHHVVKKP 249
Db 241 IHHVVKKP 249

```

; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-27

Query Match 99.4%; Score 1384; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

RESULT 7
US-09-598-982C-41
Sequence 41, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SEQ ID NO: 41
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens

US-09-598-982C-41

Query Match 99.0%; Score 1379; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

RESULT 6
US-09-598-982C-23
Sequence 23, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 23
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens

US-09-598-982C-23

Query Match 99.0%; Score 1379; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

RESULT 8
US-09-598-982C-43
Sequence 43, Application US/09598982C
GENERAL INFORMATION:
APPLICANT: Niles, Andrew
APPLICANT: Maffitt, Mark
APPLICANT: Haak-Frendsch, Mary
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34506.104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SOFTWARE: PatentIn version 3.3
SEQ ID NO: 43
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens

US-09-598-982C-43

Query Match 99.0%; Score 1379; DB 1; Length 249;
 Best Local Similarity 98.8%; Pred. No. 0;
 Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 LEKRTVGGQEARSKRSPKWQVSLRVHGPYWMHFCGGSLSIHPQWLTAAACVGPDVKDAAAL 60
 Db 1 LEKRTVGGQEARSKRSPKWQVSLRVHGPYWMHFCGGSLSIHPQWLTAAACVGPDVKDAAAL 60

QY 61 RVQLRBOHLYQQDQLPVSRTIHPQFYTQAGDADLLELPKYSVSHVTLLPPAS 120
 Db 61 RVQLRBOHLYQQDQLPVSRTIHPQFYTQAGDADLLELPKYSVSHVTLLPPAS 120

QY 121 BTFFPGMPCWVGTGWGDVNDRLLPPPLKQVPMENHICDAKYLGAATGDDVRIVR 180
 Db 121 BTFFPGMPCWVGTGWGDVNDRLLPPPLKQVPMENHICDAKYLGAATGDDVRIVR 180

QY 181 DDMLCAGNTRRDSCQDGSGGLPLVCKVNGTWLQAGVWSWGRGCAQPNRPGIYTRVYIYLDW 240
 Db 181 DDMLCAGNTRRDSCQDGSGGLPLVCKVNGTWLQAGVWSWGRGCAQPNRPGIYTRVYIYLDW 240

QY 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

RESULT 9
 US-09-598-982C-39
 ; Sequence 39, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Frendscho, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506 1-04
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 11
 ; LENGTH: 245
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-11

Query Match 98.2%; Score 1368; DB 1; Length 245;
 Best Local Similarity 99.6%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 IVGGOBAPPSKWPQVSLRVHGPYWMHFCGGSLSIHPQWLTAAACVGPDVKDAAALRQL 64
 Db 1 IVGGOBAPPSKWPQVSLRVHGPYWMHFCGGSLSIHPQWLTAAACVGPDVKDAAALRQL 60

QY 65 REQHLYQQDQLPVSRTIHPQFYTQAGDADLLELPKYSVSHVTLLPPASERP 124
 Db 61 REQHLYQQDQLPVSRTIHPQFYTQAGDADLLELPKYSVSHVTLLPPASERP 120

QY 125 PGMCWVGTGWGDVNDRLLPPPLKQVPMENHICDAKYLGAATGDDVRIVRDM 184
 Db 121 PGMCWVGTGWGDVNDRLLPPPLKQVPMENHICDAKYLGAATGDDVRIVRDM 180

QY 185 CAGNTRRDSCQDGSGGLPLVCKVNGTWLQAGVWSWGRGCAQPNRPGIYTRVYIYLDW 244
 Db 181 CAGNTRRDSCQDGSGGLPLVCKVNGTWLQAGVWSWGRGCAQPNRPGIYTRVYIYLDW 240

QY 245 VPKKP 249
 Db 241 VPKKP 245

US-09-598-982C-39

Query Match 98.6%; Score 1374; DB 1; Length 249;
 Best Local Similarity 98.8%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEKRTVGGQEARSKRSPKWQVSLRVHGPYWMHFCGGSLSIHPQWLTAAACVGPDVKDAAAL 60
 Db 1 LEKRTVGGQEARSKRSPKWQVSLRVHGPYWMHFCGGSLSIHPQWLTAAACVGPDVKDAAAL 60

QY 61 RVQLRBOHLYQQDQLPVSRTIHPQFYTQAGDADLLELPKYSVSHVTLLPPAS 120
 Db 61 RVQLRBOHLYQQDQLPVSRTIHPQFYTQAGDADLLELPKYSVSHVTLLPPAS 120

QY 121 BTFFPGMPCWVGTGWGDVNDRLLPPPLKQVPMENHICDAKYLGAATGDDVRIVR 180
 Db 121 BTFFPGMPCWVGTGWGDVNDRLLPPPLKQVPMENHICDAKYLGAATGDDVRIVR 180

QY 181 DDMLCAGNTRRDSCQDGSGGLPLVCKVNGTWLQAGVWSWGRGCAQPNRPGIYTRVYIYLDW 240
 Db 181 DDMLCAGNTRRDSCQDGSGGLPLVCKVNGTWLQAGVWSWGRGCAQPNRPGIYTRVYIYLDW 240

QY 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

SEARCHED: 10 seqs, 2486 residues
 Total number of hits satisfying chosen parameters: 10
 Minimum DB seq length: 0
 Maximum DB seq length: inf

RESULT 10

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

Database : US/09598982C_rev.pdb:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1395	100.0	249	1	US-09-598-982C-23
2	139.6	99.5	249	1	US-09-598-982C-39
3	1389	99.6	249	1	US-09-598-982C-9
4	1386	99.4	249	1	US-09-598-982C-25
5	1386	99.4	249	1	US-09-598-982C-27
6	1381	99.0	249	1	US-09-598-982C-41
7	1381	99.0	249	1	US-09-598-982C-43
8	1379	98.9	249	1	US-09-598-982C-21
9	1374	98.5	249	1	US-09-598-982C-37
10	1370	98.2	245	1	US-09-598-982C-11

ALIGNMENTS

RESULT 1
US-09-598-982C-23
; Sequence 23, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary

TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
FILE REFERENCE: 34505_104
CURRENT APPLICATION NUMBER: US/09-598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SEQ ID NO 39
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-39

Query Match 99.6%; Score 1390; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LEKRVVGGEARPKRKPWQVSLRHFQPMWHFCGSSLHPPWVTAHKVGPDVKDALL 60
Db 1 LEKRVVGGEARPKRKPWQVSLRHFQPMWHFCGSSLHPPWVTAHKVGPDVKDALL 60

QY 61 RVLQREHQHLYTQDOLIPVARYIIVHQYTAQIGAIALELLEBPKVSKSHVHTLPPRS 120
Db 61 RVLQREHQHLYTQDOLIPVARYIIVHQYTAQIGAIALELLEBPKVSKSHVHTLPPRS 120

QY 121 BTFPQMPCKWTGKMDVDERURPPPKQVKUPIMENHICDKYHAGYTGDVWRWR 180
Db 121 BTFPQMPCKWTGKMDVDERURPPPKQVKUPIMENHICDKYHAGYTGDVWRWR 180

QY 181 DDMLCAGNTRRSDCOGDSGQLPKVNGTWLQAGVWSMKGCAQPARPGQYTVYLDW 240
Db 181 DDMLCAGNTRRSDCOGDSGQLPKVNGTWLQAGVWSMKGCAQPARPGQYTVYLDW 240

QY 241 IHHYVPKKP 249
Db 241 IHHYVPKKP 249

RESULT 3
US-09-598-982C-9
; Sequence 9, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
TITLE OF INVENTION: AND METHODS OF MAKING SAME
FILE REFERENCE: 34505_104
CURRENT APPLICATION NUMBER: US/09/598, 982C
CURRENT FILING DATE: 2000-06-21
PRIOR APPLICATION NUMBER: 09/079, 970
PRIOR FILING DATE: 1998-04-15
NUMBER OF SEQ ID NOS: 52
SEQ ID NO 9
LENGTH: 249
TYPE: PRT
ORGANISM: Homo sapiens
US-09-598-982C-9

Query Match 99.6%; Score 1389; DB 1; Length 249;
 Best Local Similarity 99.6%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
 Matches 248; Conservative 0;

QY 1 LERKRIVGGQEARSKWPKWQVSLRVRHGPYWMHFCGSSLIRHPQWLTAAHCVGPDVKDLAAL 60
 Db 1 LERKRIVGGQEARSKWPKWQVSLRVRHGPYWMHFCGSSLIRHPQWLTAAHCVGPDVKDLAAL 60

QY 61 RVOLREOHLYQDQLPVSITVHPOFYTAQIGAATLELPKVSSHVTLPPAS 120
 Db 61 RVOLREOHLYQDQLPVSITVHPOFYTAQIGAATLELPKVSSHVTLPPAS 120

QY 121 ETFPGMCMWCWTGWDVNDERLPPPFKLQVKVPIHENICDAKYLGAUTGDDVIR 180
 Db 121 ETFPGMCMWCWTGWDVNDERLPPPFKLQVKVPIHENICDAKYLGAUTGDDVIR 180

QY 181 DDMLCAGNTRRDSCQDGGPLVCKVNGTWLQAGVVSNGECAQPNRPGIYRTVYIWD 240
 Db 181 DDMLCAGNTRRDSCQDGGPLVCKVNGTWLQAGVVSNGECAQPNRPGIYRTVYIWD 240

QY 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

QY 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

RESULT 4
 US-09-598-982C-25
 ; Sequence 25, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Frendscho, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; FILE REFERENCE: 34506.104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 27
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-27

Query Match 99.4%; Score 1386; DB 1; Length 249;
 Best Local Similarity 99.2%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
 Matches 247; Conservative 0;

QY 1 LERKRIVGGQEARSKWPKWQVSLRVRHGPYWMHFCGSSLIRHPQWLTAAHCVGPDVKDLAAL 60
 Db 1 LERKRIVGGQEARSKWPKWQVSLRVRHGPYWMHFCGSSLIRHPQWLTAAHCVGPDVKDLAAL 60

QY 61 RVOLREOHLYQDQLPVSITVHPOFYTAQIGAATLELPKVSSHVTLPPAS 120
 Db 61 RVOLREOHLYQDQLPVSITVHPOFYTAQIGAATLELPKVSSHVTLPPAS 120

QY 121 ETFPGMCMWCWTGWDVNDERLPPPFKLQVKVPIHENICDAKYLGAUTGDDVIR 180
 Db 121 ETFPGMCMWCWTGWDVNDERLPPPFKLQVKVPIHENICDAKYLGAUTGDDVIR 180

QY 181 DDMLCAGNTRRDSCQDGGPLVCKVNGTWLQAGVVSNGECAQPNRPGIYRTVYIWD 240
 Db 181 DDMLCAGNTRRDSCQDGGPLVCKVNGTWLQAGVVSNGECAQPNRPGIYRTVYIWD 240

QY 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

QY 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

RESULT 5
 US-09-598-982C-41
 ; Sequence 41, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Frendscho, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; FILE REFERENCE: 34506.104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 41
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-41

Query Match 99.0%; Score 1381; DB 1; Length 249;
 Best Local Similarity 98.8%; Pred. No. 0; Mismatches 2; Indels 0; Gaps 0;
 Matches 246; Conservative 1;

QY 1 LERKRIVGGQEARSKWPKWQVSLRVRHGPYWMHFCGSSLIRHPQWLTAAHCVGPDVKDLAAL 60

Db 1 LEKRIVGQEARSKPKHQSLSRVRHGPYMMHCSSLIRHPOWLTAAHCVGPDVKDAAAL 60
; APPLICANT: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; SEQUENCE 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Freidrich, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-21

RESULT 7
US-09-598-982C-43
; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Freidrich, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_1_04
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-43

Query Match 99.0%; Score 1381; DB 1; Length 249;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 0; Gaps 0;
Indels 0;

Qy 1 LEKRIVGQEARSKPKHQSLSRVRHGPYMMHCSSLIRHPOWLTAAHCVGPDVKDAAAL 60
Db 1 LEKRIVGQEARSKPKHQSLSRVRHGPYMMHCSSLIRHPOWLTAAHCVGPDVKDAAAL 60
Qy 61 RVQLRQHLYQDQLPVSLRIVHPOQTYAIGAIABLEPEPKVSHVHTLPPAS 120
Db 61 RVQLRQHLYQDQLPVSLRIVHPOQTYAIGAIABLEPEPKVSHVHTLPPAS 120
Qy 121 ETFPAGNTTRDSCQDGGPLVCKNGTWIQLAGVWSBGCACPNRPGYTVYLDW 240
Db 121 ETFPAGNTTRDSCQDGGPLVCKNGTWIQLAGVWSBGCACPNRPGYTVYLDW 240
Qy 181 DDMLCAGNTRRDSCQDGGPLVCKNGTWIQLAGVWSBGCACPNRPGYTVYLDW 240
Db 181 DDMLCAGNTRRDSCQDGGPLVCKNGTWIQLAGVWSBGCACPNRPGYTVYLDW 240
Qy 241 IHHYVPKKP 249
Db 241 IHHYVPKKP 249

RESULT 9
US-09-598-982C-37
; Sequence 37, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Freidrich, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_1_04
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-37

Query Match 98.5%; Score 1374; DB 1; Length 249;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 246; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 LEKRIVGQEARSKPKHQSLSRVRHGPYMMHCSSLIRHPOWLTAAHCVGPDVKDAAAL 60
Db 1 LEKRIVGQEARSKPKHQSLSRVRHGPYMMHCSSLIRHPOWLTAAHCVGPDVKDAAAL 60
Qy 61 RVQLRQHLYQDQLPVSLRIVHPOQTYAIGAIABLEPEPKVSHVHTLPPAS 120
Db 61 RVQLRQHLYQDQLPVSLRIVHPOQTYAIGAIABLEPEPKVSHVHTLPPAS 120

Db 1 LEKRVGGQEARSKWPKWVQSLRHHGPGMMHFCGSSLIRHPOWLTAACVGPDVKDALL 60
 Qy 61 RYVOLREOHLYQDQLPVSRIVHPQVTAQIGADIALEELERPVKSSRHVTVLPPAS 120
 Db 61 RYVOLREOHLYQDQLPVSRIVHPQVTAQIGADIALEELERPVKSSRHVTVLPPAS 120
 Qy 121 ETPPPGMPCWVTCGWGDVNDERLPPPLKQVTPIMENHICDAKHLGAYTGDVRIVR 180
 Db 121 ETPPPGMPCWVTCGWGDVNDERLPPPLKQVTPIMENHICDAKHLGAYTGDVRIVR 180
 Qy 181 DDMLCAGNTRRSQCGDAGGPVCKVNGTWLQAGVWSWGECAQPNRPGIYTRVYLDW 240
 Db 181 DDMLCAGNTRRSQCGDAGGPVCKVNGTWLQAGVWSWGECAQPNRPGIYTRVYLDW 240
 Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249
 ; ORGANISM: Homo sapiens
 US-09-598-982C-9
 Query Match 99.8%; Score 1394; DB 1; Length 249;
 Best Local Similarity 99.6%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 248; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 LEKRVGGQEARSKWPKWVQSLRHHGPGMMHFCGSSLIRHPOWLTAACVGPDVKDALL 60
 Db 1 LEKRVGGQEARSKWPKWVQSLRHHGPGMMHFCGSSLIRHPOWLTAACVGPDVKDALL 60
 Qy 61 RYVOLREOHLYQDQLPVSRIVHPQVTAQIGADIALEELERPVKSSRHVTVLPPAS 120
 Db 61 RYVOLREOHLYQDQLPVSRIVHPQVTAQIGADIALEELERPVKSSRHVTVLPPAS 120
 Qy 121 ETPPPGMPCWVTCGWGDVNDERLPPPLKQVTPIMENHICDAKHLGAYTGDVRIVR 180
 Db 121 ETPPPGMPCWVTCGWGDVNDERLPPPLKQVTPIMENHICDAKHLGAYTGDVRIVR 180
 Qy 181 DDMLCAGNTRRSQCGDAGGPVCKVNGTWLQAGVWSWGECAQPNRPGIYTRVYLDW 240
 Db 181 DDMLCAGNTRRSQCGDAGGPVCKVNGTWLQAGVWSWGECAQPNRPGIYTRVYLDW 240
 Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249
 ; ORGANISM: Homo sapiens
 US-09-598-982C-27
 Query Match 100.0%; Score 1397; DB 1; Length 249;
 Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 LEKRVGGQEARSKWPKWVQSLRHHGPGMMHFCGSSLIRHPOWLTAACVGPDVKDALL 60
 Db 1 LEKRVGGQEARSKWPKWVQSLRHHGPGMMHFCGSSLIRHPOWLTAACVGPDVKDALL 60
 Qy 61 RYVOLREOHLYQDQLPVSRIVHPQVTAQIGADIALEELERPVKSSRHVTVLPPAS 120
 Db 61 RYVOLREOHLYQDQLPVSRIVHPQVTAQIGADIALEELERPVKSSRHVTVLPPAS 120
 Qy 121 ETPPPGMPCWVTCGWGDVNDERLPPPLKQVTPIMENHICDAKHLGAYTGDVRIVR 180
 Db 121 ETPPPGMPCWVTCGWGDVNDERLPPPLKQVTPIMENHICDAKHLGAYTGDVRIVR 180
 Qy 61 RYVOLREOHLYQDQLPVSRIVHPQVTAQIGADIALEELERPVKSSRHVTVLPPAS 120
 Db 61 RYVOLREOHLYQDQLPVSRIVHPQVTAQIGADIALEELERPVKSSRHVTVLPPAS 120
 Qy 121 ETPPPGMPCWVTCGWGDVNDERLPPPLKQVTPIMENHICDAKHLGAYTGDVRIVR 180
 Db 121 ETPPPGMPCWVTCGWGDVNDERLPPPLKQVTPIMENHICDAKHLGAYTGDVRIVR 180
 Qy 181 DDMLCAGNTRRSQCGDAGGPVCKVNGTWLQAGVWSWGECAQPNRPGIYTRVYLDW 240
 Db 181 DDMLCAGNTRRSQCGDAGGPVCKVNGTWLQAGVWSWGECAQPNRPGIYTRVYLDW 240
 Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249
 ; ORGANISM: Homo sapiens
 US-09-598-982C-41
 Query Match 99.6%; Score 1392; DB 1; Length 249;
 Best Local Similarity 99.6%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
 Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 LEKRVGGQEARSKWPKWVQSLRHHGPGMMHFCGSSLIRHPOWLTAACVGPDVKDALL 60
 Db 1 LEKRVGGQEARSKWPKWVQSLRHHGPGMMHFCGSSLIRHPOWLTAACVGPDVKDALL 60
 Qy 61 RYVOLREOHLYQDQLPVSRIVHPQVTAQIGADIALEELERPVKSSRHVTVLPPAS 120
 Db 61 RYVOLREOHLYQDQLPVSRIVHPQVTAQIGADIALEELERPVKSSRHVTVLPPAS 120

RESULT 3

US-09-598-982C-9

; Sequence 9, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

QY 121 ETPPPGMPCWVITGMDDVDNDRLLPFPPLKQVKVPMENHICDAKHLGAYTGDVRIVR 180
; Sequence 23, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-23

QY RESULT 5
US-09-598-982C-43
; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-43

Query Match 99.6%; Score 1392; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEKRIVGGQEARSKRSPKWPQWVSLRVHGPYWMHFCGGSILHPOWVLTAHCVGPDVKDAAI 60
Db 1 LEKRIVGGQEARSKRSPKWPQWVSLRVHGPYWMHFCGGSILHPOWVLTAHCVGPDVKDAAI 60
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-43

QY RESULT 6
US-09-598-982C-21
; Sequence 21, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-21

Query Match 99.1%; Score 1384; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEKRIVGGQEARSKRSPKWPQWVSLRVHGPYWMHFCGGSILHPOWVLTAHCVGPDVKDAAI 60
Db 1 LEKRIVGGQEARSKRSPKWPQWVSLRVHGPYWMHFCGGSILHPOWVLTAHCVGPDVKDAAI 60
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-21

QY RESULT 7
US-09-598-982C-21
; Sequence 21, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-21

Query Match 99.1%; Score 1384; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEKRIVGGQEARSKRSPKWPQWVSLRVHGPYWMHFCGGSILHPOWVLTAHCVGPDVKDAAI 60
Db 1 LEKRIVGGQEARSKRSPKWPQWVSLRVHGPYWMHFCGGSILHPOWVLTAHCVGPDVKDAAI 60
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 21
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-21

QY RESULT 8
US-09-598-982C-21
; Sequence 21, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendcho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506-104
; CURRENT APPLICATION NUMBER: US/09/598, 982C

Qy 181 DDMLCAGNTRRSCQGAGGRPLVCKUNGTLQAGVWSWGECAQPNRPGIVTRVYLDW 240
 Db 181 DDMLCAGNTRRSCQGAGGRPLVCKUNGTLQAGVWSWGECAQPNRPGIVTRVYLDW 240
 Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

RESULT 8

US-09-598-982C-39

; Sequence 39, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506_104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO: 39
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-39

Query Match 98 %; Score 1379; DB 1; Length 249;
 Best Local Similarity 98.8%; Pred. No. 0;
 Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LEKRIVGGQEARSKRKPWQVSLRVHGPYMMFEGGLIHPOMVLTAACVGPDKDALL 60
 Db 1 LEKRIVGGQEARSKRKPWQVSLRVHGPYMMFEGGLIHPOMVLTAACVGPDKDALL 60
 Qy 61 RVQRLREQLHYQDQLPVSRITVHPQFTTAQIGADIALLELEPVKVSASHVTLLPAS 120
 Db 61 RVQRLREQLHYQDQLPVSRITVHPQFTTAQIGADIALLELEPVKVSASHVTLLPAS 120
 Qy 121 ETTPPGMPCWVTVGWDVNDERLPPPLPKQVKUPIMENHICDAKYHGLAYTGDVR 180
 Db 121 ETTPPGMPCWVTVGWDVNDERLPPPLPKQVKUPIMENHICDAKYHGLAYTGDVR 180
 Qy 181 DDMLCAGNTRRSDCQGAGGRPLVCKUNGTLQAGVWSWGECAQPNRPGIVTRVYLDW 240
 Db 181 DDMLCAGNTRRSDCQGAGGRPLVCKUNGTLQAGVWSWGECAQPNRPGIVTRVYLDW 240
 Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

RESULT 10

US-09-598-982C-11

; Sequence 11, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506_104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO: 11
 ; LENGTH: 245
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-11

Query Match 98 %; Score 1375; DB 1; Length 245;
 Best Local Similarity 99.4%; Pred. No. 0;
 Matches 244; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 5 IVGGQEARSKRKPWQVSLRVHGPYMMFEGGLIHPOMVLTAACVGPDKDALLVQL 64
 Db 1 IVGGQEARSKRKPWQVSLRVHGPYMMFEGGLIHPOMVLTAACVGPDKDALLVQL 60
 Qy 65 REQHYYQDQLPVSRITVHPQFTTAQIGADIALLELEPVKVSASHVTLLPASETFP 124
 Db 61 REQHYYQDQLPVSRITVHPQFTTAQIGADIALLELEPVKVSASHVTLLPASETFP 120
 Qy 125 PGMCWCWVTVGWDVNDERLPPPLPKQVKUPIMENHICDAKYHGLAYTGDVRDML 184
 Db 121 PGMCWCWVTVGWDVNDERLPPPLPKQVKUPIMENHICDAKYHGLAYTGDVRDML 180
 Qy 185 CAGNTRRSDCQGAGGRPLVCKUNGTLQAGVWSWGECAQPNRPGIVTRVYLDW 244
 Db 181 CAGNTRRSDCQGAGGRPLVCKUNGTLQAGVWSWGECAQPNRPGIVTRVYLDW 240

RESULT 9

US-09-598-982C-37

; Sequence 37, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506_104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3

QY 245 VPKKP 249
 QY |||||
 Db 241 VPKKP 245

Search completed: August 26, 2005, 12:29:16
 Job time : 0.100161 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 Seconds
 (without alignments)
 6.180 Million cell updates/sec

Title: US-09-598-982C-27

Perfect score: 1397

Sequence: 1 LEKRIVGQEAPRSKWPWQV.....IVTRVTVYLDMIHHVVPKKP 249

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 10 seqs, 2486 residues

Total number of hits satisfying chosen parameters: 10

Minimum DB seq length: 0

Maximum DB seq length: inf

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 200 summaries

Database : US09598982C_rev.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB ID	Description
1	1397	100.0	249	1	US-09-598-982C-25
2	1397	100.0	249	1	US-09-598-982C-27
3	1394	99.8	249	1	US-09-598-982C-9
4	1392	99.6	249	1	US-09-598-982C-41
5	1392	99.5	249	1	US-09-598-982C-43
6	1386	99.2	249	1	US-09-598-982C-23
7	1384	99.1	249	1	US-09-598-982C-21
8	1381	98.9	249	1	US-09-598-982C-39
9	1379	98.7	249	1	US-09-598-982C-37
10	1375	98.4	245	1	US-09-598-982C-11

ALIGNMENTS

RESULT	QY	Db	Db	Db	Db
1	1 LEKRIVGQEAPRSKWPWQV.....IVTRVTVYLDMIHHVVPKKP 249	1 LEKRIVGQEAPRSKWPWQV.....IVTRVTVYLDMIHHVVPKKP 249	1 LEKRIVGQEAPRSKWPWQV.....IVTRVTVYLDMIHHVVPKKP 249	1 LEKRIVGQEAPRSKWPWQV.....IVTRVTVYLDMIHHVVPKKP 249	1 LEKRIVGQEAPRSKWPWQV.....IVTRVTVYLDMIHHVVPKKP 249
US-09-598-982C-25	PRIOR APPLICATION NUMBER: 09/079,970	PRIOR FILING DATE: 1998-04-15	NUMBER OF SEQ ID NOS: 52	SOFTWARE: PatentIn version 3.3	CURRENT FILING DATE: 2000-06-21
SEQUENCE 25, APP1	APPLICATION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF	APPLICATION: Maffitt, Mark	APPLICATION: Haak-Frendscho, Mart	APPLICATION: Niles, Andrew	GENERAL INFORMATION:
SEQUENCE 27, APP1	FILE REFERENCE: 34506.104	FILE REFERENCE: 34506.104	FILE REFERENCE: 34506.104	FILE REFERENCE: 34506.104	CURRENT FILING NUMBER: US/09/598, 982C
SEQUENCE 9, APP1	CURRENT FILING DATE: 2000-06-21	PRIOR APPLICATION NUMBER: 09/079, 970	TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF	TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF	PRIOR APPLICATION NUMBER: 09/079, 970
SEQUENCE 41, APP1	PRIOR FILING DATE: 1998-04-15	NUMBER OF SEQ ID NOS: 52	SEQUENCE 43, APP1	SEQUENCE 23, APP1	NUMBER OF SEQ ID NOS: 52
SEQUENCE 21, APP1	SOFTWARE: PatentIn version 3.3	SEQUENCE 21, APP1	SEQUENCE 21, APP1	SEQUENCE 21, APP1	SOFTWARE: PatentIn version 3.3
SEQUENCE 39, APP1	SEQ ID NO: 27	SEQ ID NO: 27	SEQ ID NO: 27	SEQ ID NO: 27	SEQ ID NO: 27
SEQUENCE 37, APP1	LENGTH: 249	LENGTH: 249	LENGTH: 249	LENGTH: 249	LENGTH: 249
SEQUENCE 11, APP1	TYPE: PRT	TYPE: PRT	TYPE: PRT	TYPE: PRT	TYPE: PRT
US-09-598-982C-27	ORGANISM: Homo sapiens	ORGANISM: Homo sapiens	ORGANISM: Homo sapiens	ORGANISM: Homo sapiens	ORGANISM: Homo sapiens
Query Match	100.0%	Score 1397; DB 1; Length 249;	Score 1397; DB 1; Length 249;	Score 1397; DB 1; Length 249;	Score 1397; DB 1; Length 249;
Best Local Similarity	100.0%	Pred. No: 0; Mismatches 0; Indels 0; Gaps 0;	Pred. No: 0; Mismatches 0; Indels 0; Gaps 0;	Pred. No: 0; Mismatches 0; Indels 0; Gaps 0;	Pred. No: 0; Mismatches 0; Indels 0; Gaps 0;
Matches	249;	Conservative 0; Mismatches 0;	Conservative 0; Mismatches 0;	Conservative 0; Mismatches 0;	Conservative 0; Mismatches 0;
QY	1 LEKRIVGQEAPRSKWPWQV.....IVTRVTVYLDMIHHVVPKKP 249	1 LEKRIVGQEAPRSKWPWQV.....IVTRVTVYLDMIHHVVPKKP 249	1 LEKRIVGQEAPRSKWPWQV.....IVTRVTVYLDMIHHVVPKKP 249	1 LEKRIVGQEAPRSKWPWQV.....IVTRVTVYLDMIHHVVPKKP 249	1 LEKRIVGQEAPRSKWPWQV.....IVTRVTVYLDMIHHVVPKKP 249
Db	61 RVLQREOHLYQDPLPPRSLVHQPFTAQIGADILLELRPVKVSHTVTPAS 120	61 RVLQREOHLYQDPLPPRSLVHQPFTAQIGADILLELRPVKVSHTVTPAS 120	61 RVLQREOHLYQDPLPPRSLVHQPFTAQIGADILLELRPVKVSHTVTPAS 120	61 RVLQREOHLYQDPLPPRSLVHQPFTAQIGADILLELRPVKVSHTVTPAS 120	61 RVLQREOHLYQDPLPPRSLVHQPFTAQIGADILLELRPVKVSHTVTPAS 120
Db	121 BTFPGMPCWVWTGWDVNDERLAPPPLQQVKVPIHENICDAKYLGAYGDDVIR 180	121 BTFPGMPCWVWTGWDVNDERLAPPPLQQVKVPIHENICDAKYLGAYGDDVIR 180	121 BTFPGMPCWVWTGWDVNDERLAPPPLQQVKVPIHENICDAKYLGAYGDDVIR 180	121 BTFPGMPCWVWTGWDVNDERLAPPPLQQVKVPIHENICDAKYLGAYGDDVIR 180	121 BTFPGMPCWVWTGWDVNDERLAPPPLQQVKVPIHENICDAKYLGAYGDDVIR 180
Db	121 BTFPGMPCWVWTGWDVNDERLAPPPLQQVKVPIHENICDAKYLGAYGDDVIR 180	121 BTFPGMPCWVWTGWDVNDERLAPPPLQQVKVPIHENICDAKYLGAYGDDVIR 180	121 BTFPGMPCWVWTGWDVNDERLAPPPLQQVKVPIHENICDAKYLGAYGDDVIR 180	121 BTFPGMPCWVWTGWDVNDERLAPPPLQQVKVPIHENICDAKYLGAYGDDVIR 180	121 BTFPGMPCWVWTGWDVNDERLAPPPLQQVKVPIHENICDAKYLGAYGDDVIR 180

Qy 181 DDMLCAGNTRRDSQGDAAGPLVCKUNGTMLOQGVWSWEGCAQPNRPGIYTRVYLDW 240
 ; Sequence 9, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506-104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIORITY APPLICATION NUMBER: 09/079, 970
 ; PRIORITY FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: Patentin version 3.3
 ; SEQ ID NO: 9
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-9

RESULT 3
 US-09-598-982C-9
 ; Sequence 9, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506-104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIORITY APPLICATION NUMBER: 09/079, 970
 ; PRIORITY FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: Patentin version 3.3
 ; SEQ ID NO: 9
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-9

Query Match 99.8% Score 1394; DB 1; Length 249;
 Best Local Similarity 99.6%; Pred. No. 0; Indels 0; Gaps 0;
 Matches 248; Conservative 1; Mismatches 0; Gaps 0;

Qy 1 LEKRIVGQEARSKRSPKWPQSVLSRVAQGTYMMFEGGLIHPOMVLTAAHCVGPDVKDLAL 60
 Db 1 LEKRIVGQEARSKRSPKWPQSVLSRVAQGTYMMFEGGLIHPOMVLTAAHCVGPDVKDLAL 60
 Qy 61 RVQLREHQHYYDQDLPVSRITVHPQYTAQIGDIALLELERPVKVSHTVTLPPAS 120
 Db 61 RVQLREHQHYYDQDLPVSRITVHPQYTAQIGDIALLELERPVKVSHTVTLPPAS 120
 Qy 121 ETPPGMPCKWVGTGWDVNDERLPPPKQVKVPIMHICDAKYHLAGYTGDDVIR 180
 Db 121 ETPPGMPCKWVGTGWDVNDERLPPPKQVKVPIMHICDAKYHLAGYTGDDVIR 180
 Qy 181 DDMLCAGNTRRDSQGDAAGPLVCKUNGTMLOQGVWSWEGCAQPNRPGIYTRVYLDW 240
 Db 181 DDMLCAGNTRRDSQGDAAGPLVCKUNGTMLOQGVWSWEGCAQPNRPGIYTRVYLDW 240
 Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

RESULT 4
 US-09-598-982C-41
 ; Sequence 41, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506-104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIORITY APPLICATION NUMBER: 09/079, 970
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: Patentin version 3.3
 ; SEQ ID NO: 43
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-43

Query Match 99.6% Score 1392; DB 1; Length 249;
 Best Local Similarity 99.6%; Pred. No. 0; Indels 1; Mismatches 0; Gaps 0;
 Matches 248; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LEKRIVGQEARSKRSPKWPQSVLSRVAQGTYMMFEGGLIHPOMVLTAAHCVGPDVKDLAL 60
 Db 1 LEKRIVGQEARSKRSPKWPQSVLSRVAQGTYMMFEGGLIHPOMVLTAAHCVGPDVKDLAL 60
 Qy 61 RVQLREHQHYYDQDLPVSRITVHPQYTAQIGDIALLELERPVKVSHTVTLPPAS 120
 Db 61 RVQLREHQHYYDQDLPVSRITVHPQYTAQIGDIALLELERPVKVSHTVTLPPAS 120
 Qy 121 ETPPGMPCKWVGTGWDVNDERLPPPKQVKVPIMHICDAKYHLAGYTGDDVIR 180
 Db 121 ETPPGMPCKWVGTGWDVNDERLPPPKQVKVPIMHICDAKYHLAGYTGDDVIR 180
 Qy 181 DDMLCAGNTRRDSQGDAAGPLVCKUNGTMLOQGVWSWEGCAQPNRPGIYTRVYLDW 240
 Db 181 DDMLCAGNTRRDSQGDAAGPLVCKUNGTMLOQGVWSWEGCAQPNRPGIYTRVYLDW 240

Query Match 99.1%; Score 1384; DB 1; Length 249;
 Best Local Similarity 99.2%; Pred. No. 0; Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

US-09-598-982C-23

; Sequence 23, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Frendrich, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506.104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIORITY FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SEQ ID NO: 23
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-23

Query Match 99.2%; Score 1386; DB 1; Length 249;
 Best Local Similarity 99.2%; Pred. No. 0; Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LERKIRVGGBAEPRSKWPWQSVSLRUGHTMAMCGGSLIHPQWLTAAHCVGPDVKDLAAL 60
 Db 1 LERKIRVGGBAEPRSKWPWQSVSLRUGHTMAMCGGSLIHPQWLTAAACVGPDVKDLAAL 60

Qy 61 RVLQREOHLYQDQLPVSRITVHPOFTQTAQGADIALELBEPVKVSSHVHTVTLPAS 120
 Db 61 RVLQREOHLYQDQLPVSRITVHPOFTQTAQGADIALELBEPVKVSSHVHTVTLPAS 120

Qy 61 RVLQREOHLYQDQLPVSRITVHPOFTQTAQGADIALELBEPVKVSSHVHTVTLPAS 120
 Db 61 RVLQREOHLYQDQLPVSRITVHPOFTQTAQGADIALELBEPVKVSSHVHTVTLPAS 120

Qy 121 ETTPPGMCCWVQGWGDVNDERLPPPLKQTKVPMENHICDAKYHLGAYTGDDVRIVR 180
 Db 121 ETTPPGMCCWVQGWGDVNDERLPPPLKQTKVPMENHICDAKYHLGAYTGDDVRIVR 180

Qy 181 DDM-CAGTRRDSCQGDGGPLVCKVNTLQAGVWSWEGCAQPNRPGIYRTVYLDW 240
 Db 181 DDM-CAGTRRDSCQGDGGPLVCKVNTLQAGVWSWEGCAQPNRPGIYRTVYLDW 240

Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

Query Match 99.1%; Score 1384; DB 1; Length 249;
 Best Local Similarity 99.2%; Pred. No. 0; Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

US-09-598-982C-39

; Sequence 39, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Frendrich, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506.104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIORITY FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SEQ ID NO: 39
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-39

Query Match 98.9%; Score 1381; DB 1; Length 249;
 Best Local Similarity 98.8%; Pred. No. 0; Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LERKIRVGGBAEPRSKWPWQSVSLRUGHTMAMCGGSLIHPQWLTAAHCVGPDVKDLAAL 60
 Db 1 LERKIRVGGBAEPRSKWPWQSVSLRUGHTMAMCGGSLIHPQWLTAAACVGPDVKDLAAL 60

Qy 61 RVLQREOHLYQDQLPVSRITVHPOFTQTAQGADIALELBEPVKVSSHVHTVTLPAS 120
 Db 61 RVLQREOHLYQDQLPVSRITVHPOFTQTAQGADIALELBEPVKVSSHVHTVTLPAS 120

Qy 121 ETTPPGMCCWVQGWGDVNDERLPPPLKQTKVPMENHICDAKYHLGAYTGDDVRIVR 180
 Db 121 ETTPPGMCCWVQGWGDVNDERLPPPLKQTKVPMENHICDAKYHLGAYTGDDVRIVR 180

Qy 181 DDM-CAGTRRDSCQGDGGPLVCKVNTLQAGVWSWEGCAQPNRPGIYRTVYLDW 240
 Db 181 DDM-CAGTRRDSCQGDGGPLVCKVNTLQAGVWSWEGCAQPNRPGIYRTVYLDW 240

Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

RESULT 9
 US-09-598-982C-37
 ; Sequence 37, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Frendsch, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506_104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIORITY APPLICATION NUMBER: 09/079, 970
 ; PRIORITY FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 37
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-37

Query Match 98.7%; Score 1379; DB 1; Length 249;
 Best Local Similarity 98.8%; Pred. No. 0;
 Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LEKRIVGQEARSKWPMQVSIRVHGQYWMHRCGGSLIHPQWLTAAHCVGDNVKDIALRVL 60
 Db 1 LEKRIVGQEARSKWPMQVSIRVHGQYWMHRCGGSLIHPQWLTAAHCVGDNVKDIALRVL 60

Qy 61 RYQLEOHLYQDQLPVSRIVHPOFTAQIGADALLELEBPKVSVSHVTLLPAS 120
 Db 61 RYQLEOHLYQDQLPVSRIVHPOFTAQIGADALLELEBPKVSVSHVTLLPAS 120

Qy 121 EFPFGMPGCMWVQGDVNDERULPPPLKQVPIHENHCDAKHILGAYTGDYRIV 180
 Db 121 EFPFGMPGCMWVQGDVNDERULPPPLKQVPIHENHCDAKHILGAYTGDYRIV 180

Qy 181 DDMLCAGNTRRSQCGDAGGPGVYCKUNGWLQAGVSWGEQGAQPNRPGIVTRVYLDW 240
 Db 181 DDMLCAGNTRRSQCGDAGGPGVYCKUNGWLQAGVSWGEQGAQPNRPGIVTRVYLDW 240

Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

RESULT 10
 US-09-598-982C-11
 ; Sequence 11, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Frendsch, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506_104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIORITY APPLICATION NUMBER: 09/079, 970
 ; PRIORITY FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 11
 ; LENGTH: 245
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-11

Query Match 98.4%; Score 1375; DB 1; Length 245;
 Best Local Similarity 99.6%; Pred. No. 0;
 Matches 244; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 5 IVGGQEARSKWPMQVSIRVHGQYWMHRCGGSLIHPQWLTAAHCVGDNVKDIALRVL 64
 Db 1 IVGGQEARSKWPMQVSIRVHGQYWMHRCGGSLIHPQWLTAAHCVGDNVKDIALRVL 60

Qy 65 REQHLYQDQLPVSRIVHPOFTAQIGADALLELEBPKVSVSHVTLLPAS 124
 Db 61 REQHLYQDQLPVSRIVHPOFTAQIGADALLELEBPKVSVSHVTLLPAS 120

Qy 125 PGMPCWVTSMDVNDERULPPPLKQVPIHENHCDAKHILGAYTGDYRIVRDM 184
 Db 121 PGMPCWVTSMDVNDERULPPPLKQVPIHENHCDAKHILGAYTGDYRIVRDM 180

Qy 185 CAGNTRRDSCQGDAGGPGVYCKUNGWLQAGVSWGEQGAQPNRPGIVTRVYLDWHTHY 244
 Db 181 CAGNTRRDSCQGDAGGPGVYCKUNGWLQAGVSWGEQGAQPNRPGIVTRVYLDWHTHY 240

Qy 245 VPKKP 249
 Db 241 VPKKP 245

Search completed: August 26, 2005, 12:29:16
 Job time : 0.100161 secs

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OM protein - protein search, using sw model

Run on: August 26, 2005, 12:29:12; {Search time 0.100161 Seconds
 Perfect score: 1394
 Sequence: 1 LEKRIVGQEARSKWPMQVSIRVHGQYWMHRCGGSLIHPQWLTAAHCVGDNVKDIALRVL 249
 Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched: 10 seqs, 2486 residues

Total number of hits satisfying chosen parameters: 10
 Minimum DB seq length: 0
 Maximum DB seq length: inf

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 200 summaries

Database : US09598982C_rev.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1394	100.0	249	1 US-09-598-982C-37	Sequence 37, Appl
2	1388	99.6	249	1 US-09-598-982C-21	Sequence 21, Appl
3	1385	99.4	249	1 US-09-598-982C-41	Sequence 41, Appl
4	1385	99.4	249	1 US-09-598-982C-43	Sequence 43, Appl
5	1382	99.1	249	1 US-09-598-982C-43	Sequence 43, Appl
6	1380	99.0	249	1 US-09-598-982C-9	Sequence 9, Appl
7	1379	98.9	249	1 US-09-598-982C-39	Sequence 39, Appl
8	1379	98.9	249	1 US-09-598-982C-25	Sequence 25, Appl
9	1374	98.6	249	1 US-09-598-982C-27	Sequence 27, Appl
10	1363	97.8	245	1 US-09-598-982C-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-09-598-982C-37

; Sequence 37, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: 09/079, 970

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 37

LENGTH: 249

TYPE: PRT

ORGANISM: Homo sapiens

US-09-598-982C-37

Query Match 100.0%; Score 1394; DB 1; Length 249;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LEKRIVGGCAGPASKWPKWVQSLRVHGPYMMHFCGSSLTHPKWLTAAACVGPKDIAAL 60

Db 1 LBKRIVGGCAGPASKWPKWVQSLRVHGPYMMHFCGSSLTHPKWLTAAACVGPKDIAAL 60

Qy 61 RVLQREOHLYQDOLPPSRITVHPQFTAQIGADIALLELPVNNSHVHTLPPAS 120

Db 61 RVLQREOHLYQDOLPPSRITVHPQFTAQIGADIALLELPVNNSHVHTLPPAS 120

Qy 121 ETFPGMPCWNTGWDVNDERLPPPLKQVTPMENHICDAKYHGLAYTGDVRIR 180

Db 121 ETFPGMPCWNTGWDVNDERLPPPLKQVTPMENHICDAKYHGLAYTGDVRIR 180

Qy 181 DDMCAGNRRDSQGDSCGGPJCKVNTMLQAGVWSGEGCAQPNRPGIYTRVYLDW 240

Db 181 DDMCAGNRRDSQGDSCGGPJCKVNTMLQAGVWSGEGCAQPNRPGIYTRVYLDW 240

Qy 241 IHHVPKKE 249

Db 241 IHHVPKKE 249

Db 241 IHHVPKKE 249

RESULT 3
US-09-598-982C-41

; Sequence 41, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, CURRENT FILING DATE: 2000-06-21

PRIOR APPLICATION NUMBER: US/09/598, 982C

PRIOR FILING DATE: 1998-04-15

NUMBER OF SEQ ID NOS: 52

SOFTWARE: PatentIn version 3.3

SEQ ID NO 41

LENGTH: 249

TYPE: PRT

ORGANISM: Homo sapiens

US-09-598-982C-41

Query Match 99.4%; Score 1385; DB 1; Length 249;

Best Local Similarity 99.2%; Pred. No. 0; Mismatches 1; Indels 1; Gaps 0;

Matches 247; Conservative 1; Mismatches 1; Indels 1; Gaps 0;

Qy 1 LEKRIVGGCAGPASKWPKWVQSLRVHGPYMMHFCGSSLTHPKWLTAAACVGPKDIAAL 60

Db 1 LBKRIVGGCAGPASKWPKWVQSLRVHGPYMMHFCGSSLTHPKWLTAAACVGPKDIAAL 60

Qy 61 RVLQREOHLYQDOLPPSRITVHPQFTAQIGADIALLELPVNNSHVHTLPPAS 120

Db 61 RVLQREOHLYQDOLPPSRITVHPQFTAQIGADIALLELPVNNSHVHTLPPAS 120

Qy 121 ETFPGMPCWNTGWDVNDERLPPPLKQVTPMENHICDAKYHGLAYTGDVRIR 180

Db 121 ETFPGMPCWNTGWDVNDERLPPPLKQVTPMENHICDAKYHGLAYTGDVRIR 180

Qy 181 DDMCAGNRRDSQGDSCGGPJCKVNTMLQAGVWSGEGCAQPNRPGIYTRVYLDW 240

Db 181 DDMCAGNRRDSQGDSCGGPJCKVNTMLQAGVWSGEGCAQPNRPGIYTRVYLDW 240

Qy 241 IHHVPKKE 249

Db 241 IHHVPKKE 249

Db 241 IHHVPKKE 249

RESULT 4
US-09-598-982C-43
; Sequence 43, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SEQ ID NO: 43
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-43

Query Match 99.4%; Score 1385; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LEKRVIGGQEARSKRSPKWQVSVRLRVHGPYNNHFCGSSLIRHPOWVLTAACTVQPDVKDLAAL 60
Db 1 LEKRVIGGQEARSKRSPKWQVSVRLRVHGPYNNHFCGSSLIRHPOWVLTAACTVQPDVKDLAAL 60
Qy 61 RVQLRQEHLTYQDQLPVSRIVHQFYAQIGADIALEELPUNVSHVHTLPPAS 120
Db 61 RVQLRQEHLTYQDQLPVSRIVHQFYAQIGADIALEELPUNVSHVHTLPPAS 120
Qy 121 ETFPQGMPCWVITGWDVNDERLPPFPKQVKUPIMENHICDAKYHLQAYTGDVDRIVR 180
Db 121 ETFPQGMPCWVITGWDVNDERLPPFPKQVKUPIMENHICDAKYHLQAYTGDVDRIVR 180
Qy 181 DDMLCAGNTRRDSQCGDSCPLVCKNGTMLQAGVVSMEGCAQPNRPGIYTRVYLDW 240
Db 181 DDMLCAGNTRRDSQCGDSCPLVCKNGTMLQAGVVSMEGCAQPNRPGIYTRVYLDW 240
Qy 241 IHHYVPKKP 249
Db 241 IHHYVPKKP 249
Qy 241 IHHYVPKKP 249
Db 241 IHHYVPKKP 249

RESULT 5
US-09-598-982C-9
; Sequence 9, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SEQ ID NO: 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-39

Query Match 99.0%; Score 1380; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LEKRVIGGQEARSKRSPKWQVSVRLRVHGPYNNHFCGSSLIRHPOWVLTAACTVQPDVKDLAAL 60
Db 1 LEKRVIGGQEARSKRSPKWQVSVRLRVHGPYNNHFCGSSLIRHPOWVLTAACTVQPDVKDLAAL 60
Qy 61 RVQLRQEHLTYQDQLPVSRIVHQFYAQIGADIALEELPUNVSHVHTLPPAS 120
Db 61 RVQLRQEHLTYQDQLPVSRIVHQFYAQIGADIALEELPUNVSHVHTLPPAS 120
Qy 121 ETFPQGMPCWVITGWDVNDERLPPFPKQVKUPIMENHICDAKYHLQAYTGDVDRIVR 180
Db 121 ETFPQGMPCWVITGWDVNDERLPPFPKQVKUPIMENHICDAKYHLQAYTGDVDRIVR 180
Qy 181 DDMLCAGNTRRDSQCGDSCPLVCKNGTMLQAGVVSMEGCAQPNRPGIYTRVYLDW 240
Db 181 DDMLCAGNTRRDSQCGDSCPLVCKNGTMLQAGVVSMEGCAQPNRPGIYTRVYLDW 240
Qy 241 IHHYVPKKP 249
Db 241 IHHYVPKKP 249

RESULT 6
US-09-598-982C-39
; Sequence 39, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendsch, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SEQ ID NO: 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-39

Query Match 99.0%; Score 1380; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 247; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LEKRVIGGQEARSKRSPKWQVSVRLRVHGPYNNHFCGSSLIRHPOWVLTAACTVQPDVKDLAAL 60
Db 1 LEKRVIGGQEARSKRSPKWQVSVRLRVHGPYNNHFCGSSLIRHPOWVLTAACTVQPDVKDLAAL 60
Qy 61 RVQLRQEHLTYQDQLPVSRIVHQFYAQIGADIALEELPUNVSHVHTLPPAS 120
Db 61 RVQLRQEHLTYQDQLPVSRIVHQFYAQIGADIALEELPUNVSHVHTLPPAS 120
Qy 121 ETFPQGMPCWVITGWDVNDERLPPFPKQVKUPIMENHICDAKYHLQAYTGDVDRIVR 180
Db 121 ETFPQGMPCWVITGWDVNDERLPPFPKQVKUPIMENHICDAKYHLQAYTGDVDRIVR 180
Qy 181 DDMLCAGNTRRDSQCGDSCPLVCKNGTMLQAGVVSMEGCAQPNRPGIYTRVYLDW 240
Db 181 DDMLCAGNTRRDSQCGDSCPLVCKNGTMLQAGVVSMEGCAQPNRPGIYTRVYLDW 240
Qy 241 IHHYVPKKP 249
Db 241 IHHYVPKKP 249

RESULT 7
US-09-598-982C-25
; Sequence 25, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew

```

; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 25
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-25

Query Match          98.9%; Score 1379; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
QY      1 LERKIVGGQGAPSKWQVSLRHPGVYWMHCGGSLLHPOWLTAAACVGPDVKDLAAL 60
Db      1 LERKIVGGQGAPSKWQVSLRHPGVYWMHCGGSLLHPOWLTAAACVGPDVKDLAAL 60
QY      61 RVQRLREOHLYYQDQLLPSRIVHPOFYTAQIGADIALBLEPBNVSSHVTLPAS 120
Db      61 RVQRLREOHLYYQDQLLPSRIVHPOFYTAQIGADIALBLEPBNVSSHVTLPAS 120
QY      121 ETFPGMPCWVGTGWDVNDERLPPPLQKVPMENHICDAKYHGLAYTDDVRIVR 180
Db      121 ETFPGMPCWVGTGWDVNDERLPPPLQKVPMENHICDAKYHGLAYTDDVRIVR 180
QY      181 DDMLCAGNTRRDSCQGDAGGPLVCKVNGTWLQAGVVSWEGLCAQPNRPGIYRTVYLDW 240
Db      181 DDMLCAGNTRRDSCQGDAGGPLVCKVNGTWLQAGVVSWEGLCAQPNRPGIYRTVYLDW 240
QY      241 IHHVPKP 249
Db      241 IHHVPKP 249

RESULT 8
US-09-598-982C-27
; Sequence 23, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-23

Query Match          98.6%; Score 1374; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY      1 LERKIVGGQGAPSKWQVSLRHPGVYWMHCGGSLLHPOWLTAAACVGPDVKDLAAL 60
Db      1 LERKIVGGQGAPSKWQVSLRHPGVYWMHCGGSLLHPOWLTAAACVGPDVKDLAAL 60
QY      61 RVQRLREOHLYYQDQLLPSRIVHPOFYTAQIGADIALBLEPBNVSSHVTLPAS 120
Db      61 RVQRLREOHLYYQDQLLPSRIVHPOFYTAQIGADIALBLEPBNVSSHVTLPAS 120
QY      121 ETFPGMPCWVGTGWDVNDERLPPPLQKVPMENHICDAKYHGLAYTDDVRIVR 180
Db      121 ETFPGMPCWVGTGWDVNDERLPPPLQKVPMENHICDAKYHGLAYTDDVRIVR 180
QY      181 DDMLCAGNTRRDSCQGDAGGPLVCKVNGTWLQAGVVSWEGLCAQPNRPGIYRTVYLDW 240
Db      181 DDMLCAGNTRRDSCQGDAGGPLVCKVNGTWLQAGVVSWEGLCAQPNRPGIYRTVYLDW 240
QY      241 IHHVPKP 249
Db      241 IHHVPKP 249

RESULT 9
US-09-598-982C-23
; Sequence 23, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-23

Query Match          98.6%; Score 1374; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY      1 LERKIVGGQGAPSKWQVSLRHPGVYWMHCGGSLLHPOWLTAAACVGPDVKDLAAL 60
Db      1 LERKIVGGQGAPSKWQVSLRHPGVYWMHCGGSLLHPOWLTAAACVGPDVKDLAAL 60
QY      61 RVQRLREOHLYYQDQLLPSRIVHPOFYTAQIGADIALBLEPBNVSSHVTLPAS 120
Db      61 RVQRLREOHLYYQDQLLPSRIVHPOFYTAQIGADIALBLEPBNVSSHVTLPAS 120
QY      121 ETFPGMPCWVGTGWDVNDERLPPPLQKVPMENHICDAKYHGLAYTDDVRIVR 180
Db      121 ETFPGMPCWVGTGWDVNDERLPPPLQKVPMENHICDAKYHGLAYTDDVRIVR 180
QY      181 DDMLCAGNTRRDSCQGDAGGPLVCKVNGTWLQAGVVSWEGLCAQPNRPGIYRTVYLDW 240
Db      181 DDMLCAGNTRRDSCQGDAGGPLVCKVNGTWLQAGVVSWEGLCAQPNRPGIYRTVYLDW 240
QY      241 IHHVPKP 249
Db      241 IHHVPKP 249

RESULT 10
US-09-598-982C-11
; Sequence 11, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104

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CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; NUMBER OF SEQ ID NOS: 52-15
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 11
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-11

Query Match 97.8%; Score 1363; DB 1; Length 245;

Best Local Similarity 99.2%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

Matches 243; Conservative 0; MisMatch 0; Gap 0;

Db 1 IVGGQEARPSKWPWQSLRVLVHGPYWMHFCGGSLIHPWVLTAAHCVGPDVKDLAALRVOL 60

Qy 5 RVGGQEARPSKWPWQSLRVLVHGPYWMHFCGGSLIHPWVLTAAHCVGPDVKDLAALRVOL 64

Qy 61 RHOHLTYQDQLPVLPSRIVHQPQFYAQIGAIALLELEPVNVSSHVHTLPPASETP 120

Db 125 PGMPCAWTGWDVNDERLPPPLPKVPMENICDAKYHLGAYTGDVRTRDDML 184

Db 121 PGMPCAWTGWDVNDERLPPPLPKVPMENICDAKYHLGAYTGDVRTRDDML 180

Qy 185 CAGNTERDSCCGDSGPFLCKVNGTILQAGVSWEGCAQPNRGGIYTRTYLWIIHY 244

Db 181 CAGNTERDSCCGDSGPFLCKVNGTILQAGVSWEGCAQPNRGGIYTRTYLWIIHY 240

Qy 245 VFKKP 249

Db 241 VFKKP 245

Query Match 97.8%; Score 1363; DB 1; Length 245;
; Best Local Similarity 99.2%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
; Matches 243; Conservative 0; MisMatch 0; Gap 0;
; Db 1 IVGGQEARPSKWPWQSLRVLVHGPYWMHFCGGSLIHPWVLTAAHCVGPDVKDLAALRVOL 60
; Qy 5 RVGGQEARPSKWPWQSLRVLVHGPYWMHFCGGSLIHPWVLTAAHCVGPDVKDLAALRVOL 64
; Qy 61 RHOHLTYQDQLPVLPSRIVHQPQFYAQIGAIALLELEPVNVSSHVHTLPPASETP 120
; Db 125 PGMPCAWTGWDVNDERLPPPLPKVPMENICDAKYHLGAYTGDVRTRDDML 184
; Db 121 PGMPCAWTGWDVNDERLPPPLPKVPMENICDAKYHLGAYTGDVRTRDDML 180
; Qy 185 CAGNTERDSCCGDSGPFLCKVNGTILQAGVSWEGCAQPNRGGIYTRTYLWIIHY 244
; Db 181 CAGNTERDSCCGDSGPFLCKVNGTILQAGVSWEGCAQPNRGGIYTRTYLWIIHY 240
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-39

Query Match 100.0%; Score 1396; DB 1; Length 249;
; Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
; Matches 249; Conservative 0; MisMatch 0; Gap 0;
; Db 1 LEKRIVGGCAEPRSKWPWQSLRVLVHGPYWMHFCGGSLIHPWVLTAAHCVGPDVKDLAAL 60
; Qy 1 LEKRIVGGCAEPRSKWPWQSLRVLVHGPYWMHFCGGSLIHPWVLTAAHCVGPDVKDLAAL 60
; Db 1 LEKRIVGGCAEPRSKWPWQSLRVLVHGPYWMHFCGGSLIHPWVLTAAHCVGPDVKDLAAL 60
; Qy 61 RVQRBOHLTYQDQLPVLPSRIVHQPQFYAQIGAIALLELEPVNVSSHVHTLPPAS 120
; Db 61 RVQRBOHLTYQDQLPVLPSRIVHQPQFYAQIGAIALLELEPVNVSSHVHTLPPAS 120
; Qy 121 ETFRPGMPCWVGTGWDVNDERLPPPLPKVPMENICDAKYHLGAYTGDVRTR 180
; Db 121 ETFRPGMPCWVGTGWDVNDERLPPPLPKVPMENICDAKYHLGAYTGDVRTR 180
; Qy 181 DDMCAGNTERDSCCGDSGPFLCKVNGTILQAGVSWEGCAQPNRGGIYTRTYLW 240
; Db 181 DDMCAGNTERDSCCGDSGPFLCKVNGTILQAGVSWEGCAQPNRGGIYTRTYLW 240
; Qy 241 IHYVKKP 249
; Db 241 IHYVKKP 249

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

Database : US09598982C_rev.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

OM protein - protein search, using sw model

Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 seconds
; (without alignments)
6.180 Million cell updates/sec

Title: US-09-598-982C-39

Perfect score: 1396

Sequence: 1 LEKRIVGGCAEPRSKWPWQSLRVLVHGPYWMHFCGGSLIHPWVLTAAHCVGPDVKDLAAL 60

Scoring table: BLOCUM62

Gapext 10.0 , Gapext 0.5

Searched: 10 seqs, 2486 residues

Total number of bits satisfying chosen parameters: 10

Minimum DB seq length: 0

Maximum DB seq length: inf

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 200 summaries

RESULT 1
US-09-598-982C-39
; Sequence 39, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frandscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: AND METHODS OF MAKING SAME
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079,970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-39

Query Match 100.0%; Score 1396; DB 1; Length 249;
; Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
; Matches 249; Conservative 0; MisMatch 0; Gap 0;
; Db 1 LEKRIVGGCAEPRSKWPWQSLRVLVHGPYWMHFCGGSLIHPWVLTAAHCVGPDVKDLAAL 60
; Qy 1 LEKRIVGGCAEPRSKWPWQSLRVLVHGPYWMHFCGGSLIHPWVLTAAHCVGPDVKDLAAL 60
; Db 1 LEKRIVGGCAEPRSKWPWQSLRVLVHGPYWMHFCGGSLIHPWVLTAAHCVGPDVKDLAAL 60
; Qy 61 RVQRBOHLTYQDQLPVLPSRIVHQPQFYAQIGAIALLELEPVNVSSHVHTLPPAS 120
; Db 61 RVQRBOHLTYQDQLPVLPSRIVHQPQFYAQIGAIALLELEPVNVSSHVHTLPPAS 120
; Qy 121 ETFRPGMPCWVGTGWDVNDERLPPPLPKVPMENICDAKYHLGAYTGDVRTR 180
; Db 121 ETFRPGMPCWVGTGWDVNDERLPPPLPKVPMENICDAKYHLGAYTGDVRTR 180
; Qy 181 DDMCAGNTERDSCCGDSGPFLCKVNGTILQAGVSWEGCAQPNRGGIYTRTYLW 240
; Db 181 DDMCAGNTERDSCCGDSGPFLCKVNGTILQAGVSWEGCAQPNRGGIYTRTYLW 240
; Qy 241 IHYVKKP 249
; Db 241 IHYVKKP 249

RESULT 2

US-09-598-982C-23

; Sequence 23, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

RESULT 3
US-09-598-982C-41

; Sequence 41; Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Prendsch, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; FILE REFERENCE: 34506.104

; CURRENT APPLICATION NUMBER: US/09/598, 982C

; PRIORITY FILING DATE: 2000-06-21

; PRIOR FILING DATE: 1998-04-15

; NUMBER OF SEQ ID NOS: 52

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO: 23

; LENGTH: 249

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-598-982C-23

Query Match, Score 1390; DB 1; Length 249;

Best Local Similarity 99.6%; Pred. No. 0;

Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LERKIVGGQEARPSKWPQVSLRVRGPGYWMHFCGSSLIRHQWVLTAAHCVGPDVKDLAAL 60

Db 1 LERKIVGGQEARPSKWPQVSLRVRGPGYWMHFCGSSLIRHQWVLTAAHCVGPDVKDLAAL 60

QY 61 RVQLEQHLYQDQLPVSRIIVHPOFVTQAGTAALELPVNHSVHTVLPPAS 120

Db 61 RVQLEQHLYQDQLPVSRIIVHPOFVTQAGTAALELPVNHSVHTVLPPAS 120

QY 121 ETFRPGMPCWVHGWDVNDERLPPPLQKVPIVMEHICDAKYHLGAYTGDVRIVR 180

Db 121 ETFRPGMPCWVHGWDVNDERLPPPLQKVPIVMEHICDAKYHLGAYTGDVRIVR 180

QY 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

Db 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

Db 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

QY 241 IHHVPKKE 249

Db 241 IHHVPKKE 249

Db 241 IHHVPKKE 249

RESULT 4
US-09-598-982C-43

; Sequence 43; Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Prendsch, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; FILE REFERENCE: 34506.104

; CURRENT APPLICATION NUMBER: US/09/598, 982C

; CURRENT FILING DATE: 2000-06-21

; PRIORITY FILING DATE: 1998-04-15

; NUMBER OF SEQ ID NOS: 52

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO: 43

; LENGTH: 249

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-598-982C-43

Query Match, Score 1387; DB 1; Length 249;

Best Local Similarity 99.2%; Pred. No. 0;

Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LERKIVGGQEARPSKWPQVSLRVRGPGYWMHFCGSSLIRHQWVLTAAHCVGPDVKDLAAL 60

Db 1 LERKIVGGQEARPSKWPQVSLRVRGPGYWMHFCGSSLIRHQWVLTAAHCVGPDVKDLAAL 60

QY 61 RVQLEQHLYQDQLPVSRIIVHPOFVTQAGTAALELPVNHSVHTVLPPAS 120

Db 61 RVQLEQHLYQDQLPVSRIIVHPOFVTQAGTAALELPVNHSVHTVLPPAS 120

QY 121 ETFRPGMPCWVHGWDVNDERLPPPLQKVPIVMEHICDAKYHLGAYTGDVRIVR 180

Db 121 ETFRPGMPCWVHGWDVNDERLPPPLQKVPIVMEHICDAKYHLGAYTGDVRIVR 180

QY 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

Db 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

Db 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

QY 241 IHHVPKKE 249

Db 241 IHHVPKKE 249

Db 241 IHHVPKKE 249

RESULT 5
US-09-598-982C-9

; Sequence 9; Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Prendsch, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,

; FILE REFERENCE: 34506.104

QY 1 LERKIVGGQEARPSKWPQVSLRVRGPGYWMHFCGSSLIRHQWVLTAAHCVGPDVKDLAAL 60

Db 1 LERKIVGGQEARPSKWPQVSLRVRGPGYWMHFCGSSLIRHQWVLTAAHCVGPDVKDLAAL 60

QY 61 RVQLEQHLYQDQLPVSRIIVHPOFVTQAGTAALELPVNHSVHTVLPPAS 120

Db 61 RVQLEQHLYQDQLPVSRIIVHPOFVTQAGTAALELPVNHSVHTVLPPAS 120

QY 121 ETFRPGMPCWVHGWDVNDERLPPPLQKVPIVMEHICDAKYHLGAYTGDVRIVR 180

Db 121 ETFRPGMPCWVHGWDVNDERLPPPLQKVPIVMEHICDAKYHLGAYTGDVRIVR 180

QY 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

Db 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

Db 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

QY 241 IHHVPKKE 249

Db 241 IHHVPKKE 249

Db 241 IHHVPKKE 249

QY 61 RVQLEQHLYQDQLPVSRIIVHPOFVTQAGTAALELPVNHSVHTVLPPAS 120

Db 121 ETFRPGMPCWVHGWDVNDERLPPPLQKVPIVMEHICDAKYHLGAYTGDVRIVR 180

Db 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

Db 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

Db 181 DDMLCAGNTRRDSCQGDSGAPLVCUNGTMWLOQGVWSWEGCAQPNRPGIYTRVTVYLDW 240

CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIOR APPLICATION NUMBER: 09/079, 970
; CURRENT FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-9

Query Match 99.1%; Score 1384; DB 1; Length 249;
; Best Local Similarity 99.2%; Pred. No. 0; Mismatches 2; Indels 0; Gaps 0;
; Matches 247; Conservative 0;

Qy 1 LERKRIVGQEARSKPQWVSLRHPYWMHFCGSLIHPWVLTAAHCVGPPDVKDAL 60
; Db 1 LERKRIVGQEARSKPQWVSLRHPYWMHFCGSLIHPWVLTAAHCVGPPDVKDAL 60
; Qy 61 RVQLRQHLYQDOLPVSRITVHPQFYTQAGIAALLEPEPVNVSHTVTLPPAS 120
; Db 61 RVQLRQHLYQDOLPVSRITVHPQFYTQAGIAALLEPEPVNVSHTVTLPPAS 120
; Qy 121 ETFPFGMPCWVGTGWGDVNDERLPPPLPKQVKPIMENHICDAKYLGAUTGDDVRIVR 180
; Db 121 ETFPFGMPCWVGTGWGDVNDERLPPPLPKQVKPIMENHICDAKYLGAUTGDDVRIVR 180
; Qy 181 DDMLCAGNTRRDSQCGDAGSGPLVCKVNGTMLQAGVNSWEGCAQPNRPGIYTRTYLDW 240
; Db 181 DDMLCAGNTRRDSQCGDAGSGPLVCKVNGTMLQAGVNSWEGCAQPNRPGIYTRTYLDW 240
; Qy 241 IHHYVPKKP 249
; Db 241 IHHYVPKKP 249

RESULT 6
US-09-598-982C-25
; Sequence 25, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Haak-Frendscho, Mary
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIORITY FILING DATE: 1998-04-15
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-27

Query Match 98.9%; Score 1391; DB 1; Length 249;
; Best Local Similarity 98.8%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
; Matches 246; Conservative 0;

Qy 1 LERKRIVGQEARSKPQWVSLRHPYWMHFCGSLIHPWVLTAAHCVGPPDVKDAL 60
; Db 1 LERKRIVGQEARSKPQWVSLRHPYWMHFCGSLIHPWVLTAAHCVGPPDVKDAL 60
; Qy 61 RVQLRQHLYQDOLPVSRITVHPQFYTQAGIAALLEPEPVNVSHTVTLPPAS 120
; Db 61 RVQLRQHLYQDOLPVSRITVHPQFYTQAGIAALLEPEPVNVSHTVTLPPAS 120
; Qy 121 ETFPFGMPCWVGTGWGDVNDERLPPPLPKQVKPIMENHICDAKYLGAUTGDDVRIVR 180
; Db 121 ETFPFGMPCWVGTGWGDVNDERLPPPLPKQVKPIMENHICDAKYLGAUTGDDVRIVR 180
; Qy 181 DDMLCAGNTRRDSQCGDAGSGPLVCKVNGTMLQAGVNSWEGCAQPNRPGIYTRTYLDW 240
; Db 181 DDMLCAGNTRRDSQCGDAGSGPLVCKVNGTMLQAGVNSWEGCAQPNRPGIYTRTYLDW 240
; Qy 241 IHHYVPKKP 249
; Db 241 IHHYVPKKP 249

RESULT 8
US-09-598-982C-37
; Sequence 37, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506.104
; CURRENT APPLICATION NUMBER: US/09/598,982C
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52

Query Match 98.9%; Score 1381; DB 1; Length 249;
; Best Local Similarity 98.8%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
; Matches 246; Conservative 0;

Qy 1 LERKRIVGQEARSKPQWVSLRHPYWMHFCGSLIHPWVLTAAHCVGPPDVKDAL 60
; Db 1 LERKRIVGQEARSKPQWVSLRHPYWMHFCGSLIHPWVLTAAHCVGPPDVKDAL 60
; Qy 61 RVQLRQHLYQDOLPVSRITVHPQFYTQAGIAALLEPEPVNVSHTVTLPPAS 120
; Db 61 RVQLRQHLYQDOLPVSRITVHPQFYTQAGIAALLEPEPVNVSHTVTLPPAS 120
; Qy 121 ETFPFGMPCWVGTGWGDVNDERLPPPLPKQVKPIMENHICDAKYLGAUTGDDVRIVR 180

; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 37
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-37

Query Match 98.9%; Score 1380; DB 1; Length 249;
Best Local Similarity 99.2%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
Matches 247; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LEKRTIVGGQBARSKRSPKWQVSLRVGPGYMMHFGGSLIHPOWVTAACVCGPDKDALL 60
Db 1 LEKRTIVGGQBARSKRSPKWQVSLRVGPGYMMHFGGSLIHPOWVTAACVCGPDKDALL 60

Qy 61 RVQLRQHLYQDQQLPVSRITVHPQFTYQIGAATALLELEPBNVSSVHTVTLPPAS 120
Db 61 RVQLRQHLYQDQQLPVSRITVHPQFTYQIGAATALLELEPBNVSSVHTVTLPPAS 120

Qy 121 ETPPGMPCWVHGVDVNDERLPPFLQKVVKVPIHENHICAKYHLGAYTGDVRVIR 180
Db 121 ETPPGMPCWVHGVDVNDERLPPFLQKVVKVPIHENHICAKYHLGAYTGDVRVIR 180

Qy 181 DDMLCAGNTRRDSCQDGGPLVCKNGTMQAGVWSWGBGCAQPNRPGIYTTRYVYLDW 240
Db 181 DDMLCAGNTRRDSCQDGGPLVCKNGTMQAGVWSWGBGCAQPNRPGIYTTRYVYLDW 240

Qy 241 IHYVPKKP 249
Db 241 IHYVPKKP 249

RESULT 9
US-09-598-982C-21
; Sequence 21, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; S30 ID NO 11
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-11

Query Match 97.8%; Score 1365; DB 1; Length 245;
Best Local Similarity 99.2%; Pred. No. 0; Mismatches 2; Indels 0; Gaps 0;
Matches 243; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 IVGGOEAPSKWQVSLRVHGPYMMHFGGSLIHPOWVTAACVCGPDKDALLRVOL 64
Db 1 IVGGOEAPSKWQVSLRVHGPYMMHFGGSLIHPOWVTAACVCGPDKDALLRVOL 64

Qy 65 REQHLYQDQQLPVSRITVHPQFTYQIGAATALLELEPBNVSSVHTVTLPPASETP 124
Db 61 REQHLYQDQQLPVSRITVHPQFTYQIGAATALLELEPBNVSSVHTVTLPPASETP 120

Qy 125 PGMPCWVHGVDVNDERLPPFLQKVVKVPIHENHICAKYHLGAYTGDVRVIRDDML 184
Db 121 PGMPCWVHGVDVNDERLPPFLQKVVKVPIHENHICAKYHLGAYTGDVRVIRDDML 180

Qy 185 CAGNTRRDSCQDGGPLVCKNGTMQAGVWSWGBGCAQPNRPGIYTTRYVYLDW 244
Db 181 CAGNTRRDSCQDGGPLVCKNGTMQAGVWSWGBGCAQPNRPGIYTTRYVYLDW 240

Qy 245 VPKKP 249
Db 241 VPKKP 245

US-09-598-982C-21

Query Match 98.4%; Score 1374; DB 1; Length 249;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 246; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 LEKRTIVGGQBARSKRSPKWQVSLRVGPGYMMHFGGSLIHPOWVTAACVCGPDKDALL 60
Db 1 LEKRTIVGGQBARSKRSPKWQVSLRVGPGYMMHFGGSLIHPOWVTAACVCGPDKDALL 60

Qy 61 RVQLRQHLYQDQQLPVSRITVHPQFTYQIGAATALLELEPBNVSSVHTVTLPPAS 120
Db 61 RVQLRQHLYQDQQLPVSRITVHPQFTYQIGAATALLELEPBNVSSVHTVTLPPAS 120

Qy 121 ETPPGMPCWVHGVDVNDERLPPFLQKVVKVPIHENHICAKYHLGAYTGDVRVIR 180
Db 121 ETPPGMPCWVHGVDVNDERLPPFLQKVVKVPIHENHICAKYHLGAYTGDVRVIR 180

Qy 181 DDMLCAGNTRRDSCQDGGPLVCKNGTMQAGVWSWGBGCAQPNRPGIYTTRYVYLDW 240
Db 181 DDMLCAGNTRRDSCQDGGPLVCKNGTMQAGVWSWGBGCAQPNRPGIYTTRYVYLDW 240

RESULT 10
US-09-598-982C-11
; Sequence 11, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Hakk-Friedscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 3456.104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIORITY FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; S30 ID NO 11
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-11

Query Match 97.8%; Score 1365; DB 1; Length 245;
Best Local Similarity 99.2%; Pred. No. 0; Mismatches 2; Indels 0; Gaps 0;
Matches 243; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 IVGGOEAPSKWQVSLRVHGPYMMHFGGSLIHPOWVTAACVCGPDKDALLRVOL 64
Db 1 IVGGOEAPSKWQVSLRVHGPYMMHFGGSLIHPOWVTAACVCGPDKDALLRVOL 64

Qy 65 REQHLYQDQQLPVSRITVHPQFTYQIGAATALLELEPBNVSSVHTVTLPPASETP 124
Db 61 REQHLYQDQQLPVSRITVHPQFTYQIGAATALLELEPBNVSSVHTVTLPPASETP 120

Qy 125 PGMPCWVHGVDVNDERLPPFLQKVVKVPIHENHICAKYHLGAYTGDVRVIRDDML 184
Db 121 PGMPCWVHGVDVNDERLPPFLQKVVKVPIHENHICAKYHLGAYTGDVRVIRDDML 180

Qy 185 CAGNTRRDSCQDGGPLVCKNGTMQAGVWSWGBGCAQPNRPGIYTTRYVYLDW 244
Db 181 CAGNTRRDSCQDGGPLVCKNGTMQAGVWSWGBGCAQPNRPGIYTTRYVYLDW 240

Qy 245 VPKKP 249
Db 241 VPKKP 245

US-09-598-982C-11

Search completed: August 26, 2005, 12:29:17
Job time : 0.100161 secs

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OM protein - protein search, using sw model

Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 seconds
(without alignments) 6.180 Million cell updates/sec

Title: US-09-598-982C-41
Perfect score: 1398
Sequence: 1 LEKRTIVGGQBARSKRSPKWQVSLRVGPGYMMHFGGSLIHPOWVTAACVCGPDKDALL 60

Scoring table: BLOSUM62
Gappen 10.0 , Gapext 0.5

Searched: Total number of hits satisfying chosen parameters: 10 seqs., 2486 residues

Minimum DB seq length: 0

Maximum DB seq length: inf

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 200 summaries

Database : US09598982C_rev.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES					
Result No.	Score	Query Match	Length	DB ID	Description
1	1398	100.0	249	1 US-09-598-982C-41	Sequence 41, Appl
2	1398	100.0	249	1 US-09-598-982C-43	Sequence 43, Appl
3	1392	99.6	249	1 US-09-598-982C-25	Sequence 25, Appl
4	1392	99.6	249	1 US-09-598-982C-27	Sequence 27, Appl
5	1389	99.4	249	1 US-09-598-982C-9	Sequence 9, Appl
6	1387	99.2	249	1 US-09-598-982C-39	Sequence 39, Appl
7	1385	99.1	249	1 US-09-598-982C-37	Sequence 37, Appl
8	1381	98.8	249	1 US-09-598-982C-23	Sequence 23, Appl
9	1379	98.6	249	1 US-09-598-982C-21	Sequence 21, Appl
10	1370	98.0	245	1 US-09-598-982C-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1 US-09-598-982C-41					
Sequence 41, Application US/09598982C					
GENERAL INFORMATION:					
APPLICANT:	Niles, Andrew				
APPLICANT:	Maffitt, Mark				
APPLICANT:	Haak-Prendsch, Mary				
TITLE OF INVENTION:	RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME				
FILE REFERENCE:	34506_1.04				
CURRENT APPLICATION NUMBER:	US/09/598, 982C				
CURRENT FILING DATE:	2000-06-21				
PRIOR APPLICATION NUMBER:	09/079, 970				
PRIOR FILING DATE:	1998-04-15				
NUMBER OF SEQ ID NOS:	52				
SOFTWARE:	PatentIn version 3.3				
SEQ ID NO:	43				
LENGTH:	249				
TYPE:	PRT				
ORGANISM:	Homo sapiens				
US-09-598-982C-43					
Query Match 100.0%; Score 1398; DB 1; Length 249;					
Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;					
Matches 249; Conservative 0; MisMatches 0; Del 0; Insert 0; Gap 0;					
QY LKEKRVGGQEARSKWPMQVSLSRVRHGGYWMHCGGSLIHPQWVLTAAHCVGPDVKDLAAL 60					
Db 1 LEKRVGGQEARSKWPMQVSLSRVRHGGYWMHCGGSLIHPQWVLTAAHCVGPDVKDLAAL 60					
QY RVLQRHOHLYYQDQLQPLPVSVTIVHQFQYTAQIGADIALABLEPEVTVNSHVVHTLPPAS 120					
Db 61 RVLQRHOHLYYQDQLQPLPVSVTIVHQFQYTAQIGADIALABLEPEVTVNSHVVHTLPPAS 120					
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME					
FILE REFERENCE: 34506_1.04					
CURRENT APPLICATION NUMBER: US/09/598, 982C					
CURRENT FILING DATE: 2000-06-21					
PRIOR FILING DATE: 1998-04-15					
NUMBER OF SEQ ID NOS: 52					
SOFTWARE: PatentIn version 3.3					
SEQ ID NO: 41					
LENGTH: 249					
TYPE: PRT					
ORGANISM: Homo sapiens					
US-09-598-982C-41					

Query Match 100.0%; Score 1398; DB 1; Length 249;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

Matches 249; Conservative 0; MisMatches 0; Del 0; Insert 0; Gap 0;

RESULT 2 US-09-598-982C-43					
Sequence 43, Application US/09598982C					
GENERAL INFORMATION:					
APPLICANT:	Niles, Andrew				
APPLICANT:	Maffitt, Mark				
APPLICANT:	Haak-Prendsch, Mary				
TITLE OF INVENTION:	RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME				
FILE REFERENCE:	34506_1.04				
CURRENT APPLICATION NUMBER:	US/09/598, 982C				
CURRENT FILING DATE:	2000-06-21				
PRIOR APPLICATION NUMBER:	09/079, 970				
PRIOR FILING DATE:	1998-04-15				
NUMBER OF SEQ ID NOS:	52				
SOFTWARE:	PatentIn version 3.3				
SEQ ID NO:	43				
LENGTH:	249				
TYPE:	PRT				
ORGANISM:	Homo sapiens				
US-09-598-982C-43					
Query Match 100.0%; Score 1398; DB 1; Length 249;					
Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;					
Matches 249; Conservative 0; MisMatches 0; Del 0; Insert 0; Gap 0;					
QY LKEKRVGGQEARSKWPMQVSLSRVRHGGYWMHCGGSLIHPQWVLTAAHCVGPDVKDLAAL 60					
Db 1 LEKRVGGQEARSKWPMQVSLSRVRHGGYWMHCGGSLIHPQWVLTAAHCVGPDVKDLAAL 60					
QY RVLQRHOHLYYQDQLQPLPVSVTIVHQFQYTAQIGADIALABLEPEVTVNSHVVHTLPPAS 120					
Db 61 RVLQRHOHLYYQDQLQPLPVSVTIVHQFQYTAQIGADIALABLEPEVTVNSHVVHTLPPAS 120					
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME					
FILE REFERENCE: 34506_1.04					
CURRENT APPLICATION NUMBER: US/09/598, 982C					
CURRENT FILING DATE: 2000-06-21					
PRIOR APPLICATION NUMBER: 09/079, 970					
SEQ ID NO: 41					
LENGTH: 249					
TYPE: PRT					
ORGANISM: Homo sapiens					
US-09-598-982C-41					

Query Match 100.0%; Score 1398; DB 1; Length 249;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;

Matches 249; Conservative 0; MisMatches 0; Del 0; Insert 0; Gap 0;

RESULT 3 US-09-598-982C-25					
Sequence 25, Application US/09598982C					
GENERAL INFORMATION:					
APPLICANT:	Niles, Andrew				
APPLICANT:	Maffitt, Mark				
APPLICANT:	Haak-Prendsch, Mary				
TITLE OF INVENTION:	RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME				
FILE REFERENCE:	34506_1.04				
CURRENT APPLICATION NUMBER:	US/09/598, 982C				
CURRENT FILING DATE:	2000-06-21				
PRIOR APPLICATION NUMBER:	09/079, 970				
PRIOR FILING DATE:	1998-04-15				
NUMBER OF SEQ ID NOS:	52				
US-09-598-982C-25					
Query Match 100.0%; Score 1392; DB 1; Length 249;					
Best Local Similarity 99.6%; Pred. No. 1; Mismatches 0; Indels 0; Gaps 0;					
Matches 249; Conservative 0; MisMatches 0; Del 0; Insert 0; Gap 0;					
QY LEKRVGGQEARSKWPMQVSLSRVRHGGYWMHCGGSLIHPQWVLTAAHCVGPDVKDLAAL 60					
Db 1 LEKRVGGQEARSKWPMQVSLSRVRHGGYWMHCGGSLIHPQWVLTAAHCVGPDVKDLAAL 60					
QY RVLQRHOHLYYQDQLQPLPVSVTIVHQFQYTAQIGADIALABLEPEVTVNSHVVHTLPPAS 120					
Db 61 RVLQRHOHLYYQDQLQPLPVSVTIVHQFQYTAQIGADIALABLEPEVTVNSHVVHTLPPAS 120					
TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF, AND METHODS OF MAKING SAME					
FILE REFERENCE: 34506_1.04					
CURRENT APPLICATION NUMBER: US/09/598, 982C					
CURRENT FILING DATE: 2000-06-21					
PRIOR APPLICATION NUMBER: 09/079, 970					
SEQ ID NO: 41					
LENGTH: 249					
TYPE: PRT					
ORGANISM: Homo sapiens					
US-09-598-982C-41					

Query Match 100.0%; Score 1392; DB 1; Length 249;

Best Local Similarity 99.6%; Pred. No. 1; Mismatches 0; Indels 0; Gaps 0;

Matches 249; Conservative 0; MisMatches 0; Del 0; Insert 0; Gap 0;

SOFTWARE: PatentIn version 3.3
; SEQ ID NO 25
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-25

Query Match 99.6%; Score 1392; DB 1; Length 249;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEKRIVGQGEAPRSKWPQWVSLRIVGPGYWMHCGSSLIRHPOWLTAACVGPVDKDLAAL 60
Db 1 LEKRIVGQGEAPRSKWPQWVSLRIVGPGYWMHCGSSLIRHPOWLTAACVGPVDKDLAAL 60

QY 61 RVQLEOHLYYDQOLIPVSIIVHPQTYTQIQTGADIALELPVNHSVHVTLPAS 120
Db 61 RVQLEOHLYYDQOLIPVSIIVHPQTYTQIQTGADIALELPVNHSVHVTLPAS 120

QY 121 ETFPGMPCWVTKGWDVNDLERLPPPLQKVPMENHICDAKYHGTGDDVR 180
Db 121 ETFPGMPCWVTKGWDVNDLERLPPPLQKVPMENHICDAKYHGTGDDVR 180

QY 181 DDMICAGNTRRDSQGDAGGLPKVCKNGTWLQAGVWSWEGCAQPNRPGIYTTRYYLW 240
Db 181 DDMICAGNTRRDSQGDAGGLPKVCKNGTWLQAGVWSWEGCAQPNRPGIYTTRYYLW 240

QY 241 IHHVVKKP 249
Db 241 IHHVVKKP 249

RESULT 4
US-09-598-982C-27
; Sequence 27, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: RECOMBINANT TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 27
; LENGTH: 249
; SEQ ID NO 27
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-27

Query Match 99.4%; Score 1389; DB 1; Length 249;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEKRIVGQGEAPRSKWPQWVSLRIVGPGYWMHCGSSLIRHPOWLTAACVGPVDKDLAAL 60
Db 1 LEKRIVGQGEAPRSKWPQWVSLRIVGPGYWMHCGSSLIRHPOWLTAACVGPVDKDLAAL 60

QY 61 RVQLEOHLYYDQOLIPVSIIVHPQTYTQIQTGADIALELPVNHSVHVTLPAS 120
Db 61 RVQLEOHLYYDQOLIPVSIIVHPQTYTQIQTGADIALELPVNHSVHVTLPAS 120

QY 121 ETFPGMPCWVTKGWDVNDLERLPPPLQKVPMENHICDAKYHGTGDDVR 180
Db 121 ETFPGMPCWVTKGWDVNDLERLPPPLQKVPMENHICDAKYHGTGDDVR 180

QY 181 DDMICAGNTRRDSQGDAGGLPKVCKNGTWLQAGVWSWEGCAQPNRPGIYTTRYYLW 240
Db 181 DDMICAGNTRRDSQGDAGGLPKVCKNGTWLQAGVWSWEGCAQPNRPGIYTTRYYLW 240

QY 241 IHHVVKKP 249
Db 241 IHHVVKKP 249

RESULT 5
US-09-598-982C-9
; Sequence 9, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 9
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-9

Query Match 99.4%; Score 1389; DB 1; Length 249;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LEKRIVGQGEAPRSKWPQWVSLRIVGPGYWMHCGSSLIRHPOWLTAACVGPVDKDLAAL 60
Db 1 LEKRIVGQGEAPRSKWPQWVSLRIVGPGYWMHCGSSLIRHPOWLTAACVGPVDKDLAAL 60

QY 61 RVQLEOHLYYDQOLIPVSIIVHPQTYTQIQTGADIALELPVNHSVHVTLPAS 120
Db 61 RVQLEOHLYYDQOLIPVSIIVHPQTYTQIQTGADIALELPVNHSVHVTLPAS 120

QY 121 ETFPGMPCWVTKGWDVNDLERLPPPLQKVPMENHICDAKYHGTGDDVR 180
Db 121 ETFPGMPCWVTKGWDVNDLERLPPPLQKVPMENHICDAKYHGTGDDVR 180

QY 181 DDMICAGNTRRDSQGDAGGLPKVCKNGTWLQAGVWSWEGCAQPNRPGIYTTRYYLW 240
Db 181 DDMICAGNTRRDSQGDAGGLPKVCKNGTWLQAGVWSWEGCAQPNRPGIYTTRYYLW 240

QY 241 IHHVVKKP 249
Db 241 IHHVVKKP 249

RESULT 6
US-09-598-982C-39
; Sequence 39, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; CURRENT FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: 09/079, 970
; PRIOR FILING DATE: 1998-04-15
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 39
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens

US-09-598-982C-39

Query Match 99.2%; Score 1387; DB 1; Length 249;
 Best Local Similarity 99.2%; Pred. No. 0;
 Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 LERKRIVGQEARSKWQVSLRHPQYMMRCGGSLIHPWQVLTAAHCYGPVDKDAL 60
 Db 1 LERKRIVGQEARSKWQVSLRHPQYMMRCGGSLIHPWQVLTAAHCYGPVDKDAL 60
 Qy 61 RYQLEQHLYQDQLEVSRIVHPQFTAGIGADIALEELPENVSSTHTVTLPPAS 120
 Db 61 RYQLEQHLYQDQLEVSRIVHPQFTAGIGADIALEELPENVSSTHTVTLPPAS 120
 Qy 121 ETTPPGMPCWVITGWGDVNDERLPPPLQKVPMENHICDAKHLGAVTGDVRIVR 180
 Db 121 ETTPPGMPCWVITGWGDVNDERLPPPLQKVPMENHICDAKHLGAVTGDVRIVR 180
 Qy 181 DDMLCAGNTRRDSCQGDGGPLVKVNGTWLQAGVWSWGECAQPNRPGIVTRVYLDW 240
 Db 181 DDMLCAGNTRRDSCQGDGGPLVKVNGTWLQAGVWSWGECAQPNRPGIVTRVYLDW 240
 Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

RESULT 7

US-09-598-982C-37
 ; Sequence 37, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Prendsch, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OR INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506.104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO: 23
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-23

RESULT 8

US-09-598-982C-23
 ; Sequence 23, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Prendsch, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506.104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO: 23
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-23

RESULT 9

US-09-598-982C-21
 ; Sequence 21, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Prendsch, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34506.104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO: 21
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-21

Query Match 99.1%; Score 1385; DB 1; Length 249;
 Best Local Similarity 99.2%; Pred. No. 0;
 Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 LERKRIVGQEARSKWQVSLRHPQYMMRCGGSLIHPWQVLTAAHCYGPVDKDAL 60
 Db 1 LERKRIVGQEARSKWQVSLRHPQYMMRCGGSLIHPWQVLTAAHCYGPVDKDAL 60
 Qy 61 RYQLEQHLYQDQLEVSRIVHPQFTAGIGADIALEELPENVSSTHTVTLPPAS 120
 Db 61 RYQLEQHLYQDQLEVSRIVHPQFTAGIGADIALEELPENVSSTHTVTLPPAS 120
 Qy 121 ETTPPGMPCWVITGWGDVNDERLPPPLQKVPMENHICDAKHLGAVTGDVRIVR 180
 Db 121 ETTPPGMPCWVITGWGDVNDERLPPPLQKVPMENHICDAKHLGAVTGDVRIVR 180
 Qy 181 DDMLCAGNTRRDSCQGDGGPLVKVNGTWLQAGVWSWGECAQPNRPGIVTRVYLDW 240
 Db 181 DDMLCAGNTRRDSCQGDGGPLVKVNGTWLQAGVWSWGECAQPNRPGIVTRVYLDW 240
 Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

Query Match 98.8%; Score 1391; DB 1; Length 249;
 Best Local Similarity 98.8%; Pred. No. 0;
 Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 LERKRIVGQEARSKWQVSLRHPQYMMRCGGSLIHPWQVLTAAHCYGPVDKDAL 60
 Db 1 LERKRIVGQEARSKWQVSLRHPQYMMRCGGSLIHPWQVLTAAHCYGPVDKDAL 60
 Qy 61 RYQLEQHLYQDQLEVSRIVHPQFTAGIGADIALEELPENVSSTHTVTLPPAS 120
 Db 61 RYQLEQHLYQDQLEVSRIVHPQFTAGIGADIALEELPENVSSTHTVTLPPAS 120
 Qy 121 ETTPPGMPCWVITGWGDVNDERLPPPLQKVPMENHICDAKHLGAVTGDVRIVR 180
 Db 121 ETTPPGMPCWVITGWGDVNDERLPPPLQKVPMENHICDAKHLGAVTGDVRIVR 180
 Qy 181 DDMLCAGNTRRDSCQGDGGPLVKVNGTWLQAGVWSWGECAQPNRPGIVTRVYLDW 240
 Db 181 DDMLCAGNTRRDSCQGDGGPLVKVNGTWLQAGVWSWGECAQPNRPGIVTRVYLDW 240
 Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

Query Match 98.6%; Score 1379; DB 1; Length 249;
 Best Local Similarity 98.8%; Pred. No. 0;
 Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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Qy 1 LERKIVGGEARPSKMPWQVSLRVHGPYNNHFCGGSLLHPOWLTAAHCVGPPVKDLAAL 60
 1 LEKRIVGGEARPSKMPWQVSLRVHGPYNNHFCGGSLLHPOWLTAAACVGPPVKDLAAL 60

Qy 61 RVQREHQHLYTQDQLPVSRLIWRQFVTAQIGADIALBLEEVANSHVHTLPPAS 120
 1 RVQREHQHLYTQDQLPVSRLIWRQFVTAQIGADIALBLEEVANSHVHTLPPAS 120

Qy 121 ETPFPGMPCWVGTGMDVNDLERLPPPLPKVQKVPMHENICDAKXHILGAYTGDVRIVR 180
 121 ETPFPGMPCWVGTGMDVNDLERLPPPLPKVQKVPMHENICDAKXHILGAYTGDVRIVR 180

Db 181 DDMICAGNTRRDSCCGDASCPPLVKVNGTLQAGTVSKRGCAOPNRPGTYRTVYLDW 240
 181 DDMICAGNTRRDSCCGDASCPPLVKVNGTLQAGTVSKRGCAOPNRPGTYRTVYLDW 240

Qy 241 IHHVPPKKP 249
 241 IHHVPPKKP 249

Db 241 IHHVPPKKP 249

RESULT 10
 US-09-598-982C-11

; Sequence 11, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34505.104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21

; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52

; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 11
 ; LENGTH: 245

; TYPE: PRT

; ORGANISM: Homo sapiens

Query Match 98.0%; Score 1370; DB 1; Length 245;
 Best Local Similarity 99.2%; Pred. No. 0;
 Matches 243; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 5 IVGGEARPSKMPWQVSLRVHGPYNNHFCGGSLLHPOWLTAAHCVGPPVKDLAALRVL 64
 1 IVGGEARPSKMPWQVSLRVHGPYNNHFCGGSLLHPOWLTAAHCVGPPVKDLAALRVL 60

Qy 65 RBOHQHLYQDQLPVSRLIWRQFVTAQIGADIALBLEEVANSHVHTLPPASETP 124
 61 RBOHQHLYQDQLPVSRLIWRQFVTAQIGADIALBLEEVANSHVHTLPPASETP 120

Db 125 PGMPCKWVTGMDVNDLERLPPPLPKVQKVPMHENICDAKXHILGAYTGDVRIVRDM 184
 121 PGMPCKWVTGMDVNDLERLPPPLPKVQKVPMHENICDAKXHILGAYTGDVRIVRDM 180

Qy 185 CAGNTRRDSCCGDAGGPLVCKVNGTLQAGTVSKRGCAOPNRPGTYRTVYLDW 244
 181 CAGNTRRDSCCGDAGGPLVCKVNGTLQAGTVSKRGCAOPNRPGTYRTVYLDW 240

Qy 245 VPKKP 249
 Db 241 VPKKP 245

RESULT 1
 US-09-598-982C-41

; Sequence 41, Application US/09598982C
 ; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Maffitt, Mark
 ; APPLICANT: Haak-Frendscho, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; TITLE OF INVENTION: AND METHODS OF MAKING SAME
 ; FILE REFERENCE: 34505.104
 ; CURRENT APPLICATION NUMBER: US/09/598, 982C
 ; CURRENT FILING DATE: 2000-06-21

; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 41
 ; LENGTH: 249

ALIGNMENTS

Run on: August 26, 2005, 12:29:12 ; Search time 0.100161 Seconds
 OM protein - protein search, using SW model
 (without alignments)
 6.180 Million cell updates/sec

Title: US-09-598-982C-43
 Perfect score: 1398
 Sequence: 1 LERKIVGGEARPSKMPWQVSLRVHGPYNNHFCGGSLLHPOWLTAAACVGPPVKDLAAL 60

Scoring table: BL0SUM62
 Gapop 10.0 , Gapext 0.5

Searched: 10 seqs, 2486 residues

Total number of hits satisfying chosen parameters: 10
 Minimum DB seq length: 0
 Maximum DB seq length: inf

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 200 summaries

Database : US09598982C_rev.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1398	100.0	249	1 US-09-598-982C-41	Sequence 41, Appl
2	1398	100.0	249	1 US-09-598-982C-43	Sequence 43, Appl
3	1392	99.6	249	1 US-09-598-982C-25	Sequence 25, Appl
4	1392	99.6	249	1 US-09-598-982C-27	Sequence 27, Appl
5	1399	99.4	249	1 US-09-598-982C-9	Sequence , Appl
6	1387	99.2	249	1 US-09-598-982C-39	Sequence 39, Appl
7	1385	99.1	249	1 US-09-598-982C-37	Sequence 37, Appl
8	1381	98.8	249	1 US-09-598-982C-23	Sequence 23, Appl
9	1379	98.6	249	1 US-09-598-982C-21	Sequence 21, Appl
10	1370	98.0	245	1 US-09-598-982C-11	Sequence 11, Appl

Result

No.

Score

Match

Length

DB ID

Description

Result

No.

Score

Query

Match

Length

DB

ID

Description

Result

No.

Score

Match

Length

DB

ID

Description

Result

No.

US-09-598-982C-41

Query Match 100.0%; Score 1398; DB 1; Length 249;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LERKRIVGGEARSKRSPKWVPSLRLVPGYPMWFCGGSLLHPOWLTAACVGDVKDAAAL 60
 Db 1 LERKRIVGGEARSKRSPKWVPSLRLVPGYPMWFCGGSLLHPOWLTAACVGDVKDAAAL 60

Qy 61 RVQLRQHLYQDQPLPVSRIVHPOFQYAOIGADIALLELEPVLNVSHTVTLLPAS 120
 Db 61 RVQLRQHLYQDQPLPVSRIVHPOFQYAOIGADIALLELEPVLNVSHTVTLLPAS 120

Qy 121 ETPPPGMPCWVGTGWDVNDERLPPPLKQVPMENHICDAKYLHGATGDDVRIR 180
 Db 121 ETPPPGMPCWVGTGWDVNDERLPPPLKQVPMENHICDAKYLHGATGDDVRIR 180

Qy 181 DDMLCAGNTRRDSCOGDAGGLPLVCKVNGTWLQAGVVSMEGCAQPNRPGIYTRYTYLDW 240
 Db 181 DDMLCAGNTRRDSCOGDAGGLPLVCKVNGTWLQAGVVSMEGCAQPNRPGIYTRYTYLDW 240

Qy 241 IHHVVPKKP 249
 Db 241 IHHVVPKKP 249

RESULT 3

US-09-598-982C-25
 ; Sequence 25 Application US/09598982C

; GENERAL INFORMATION:
 ; APPLICANT: Niles, Andrew
 ; APPLICANT: Haak-Frendsch, Mary
 ; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
 ; FILE REFERENCE: 3456.104
 ; CURRENT FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: 09/079, 970
 ; PRIOR FILING DATE: 1998-04-15
 ; NUMBER OF SEQ ID NOS: 52
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO: 25
 ; LENGTH: 249
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-598-982C-25

Query Match 99.6%; Score 1392; DB 1; Length 249;
 Best Local Similarity 99.6%; Pred. No. 0;
 Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LERKRIVGGEARSKRSPKWVPSLRLVPGYPMWFCGGSLLHPOWLTAACVGDVKDAAAL 60
 Db 1 LERKRIVGGEARSKRSPKWVPSLRLVPGYPMWFCGGSLLHPOWLTAACVGDVKDAAAL 60

Qy 61 RVQLRQHLYQDQPLPVSRIVHPOFQYAOIGADIALLELEPVLNVSHTVTLLPAS 120
 Db 61 RVQLRQHLYQDQPLPVSRIVHPOFQYAOIGADIALLELEPVLNVSHTVTLLPAS 120

Qy 121 ETPPPGMPCWVGTGWDVNDERLPPPLKQVPMENHICDAKYLHGATGDDVRIR 180
 Db 121 ETPPPGMPCWVGTGWDVNDERLPPPLKQVPMENHICDAKYLHGATGDDVRIR 180

Qy 181 DDMLCAGNTRRDSCOGDAGGLPLVCKVNGTWLQAGVVSMEGCAQPNRPGIYTRYTYLDW 240
 Db 181 DDMLCAGNTRRDSCOGDAGGLPLVCKVNGTWLQAGVVSMEGCAQPNRPGIYTRYTYLDW 240

Qy 241 IHHVVPKKP 249
 Db 241 IHHVVPKKP 249

US-09-598-982C-43

Query Match 100.0%; Score 1398; DB 1; Length 249;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LERKRIVGGEARSKRSPKWVPSLRLVPGYPMWFCGGSLLHPOWLTAACVGDVKDAAAL 60
 Db 1 LERKRIVGGEARSKRSPKWVPSLRLVPGYPMWFCGGSLLHPOWLTAACVGDVKDAAAL 60

Qy 61 RVQLRQHLYQDQPLPVSRIVHPOFQYAOIGADIALLELEPVLNVSHTVTLLPAS 120
 Db 61 RVQLRQHLYQDQPLPVSRIVHPOFQYAOIGADIALLELEPVLNVSHTVTLLPAS 120

Qy 121 ETPPPGMPCWVGTGWDVNDERLPPPLKQVPMENHICDAKYLHGATGDDVRIR 180
 Db 121 ETPPPGMPCWVGTGWDVNDERLPPPLKQVPMENHICDAKYLHGATGDDVRIR 180

Qy 181 DDMLCAGNTRRDSCOGDAGGLPLVCKVNGTWLQAGVVSMEGCAQPNRPGIYTRYTYLDW 240
 Db 181 DDMLCAGNTRRDSCOGDAGGLPLVCKVNGTWLQAGVVSMEGCAQPNRPGIYTRYTYLDW 240

Qy 241 IHHVVPKKP 249
 Db 241 IHHVVPKKP 249

US-09-598-982C-27

Query Match 99.6%; Score 1392; DB 1; Length 249;
 Best Local Similarity 99.6%; Pred. No. 0;
 Matches 248; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LEKRIVGGEARPSKWPWVSLRVHGPYMMHFCGSSLTHQWLTAACVGPDVKDLAAL 60
 Db 1 LEKRIVGGEARPSKWPWVSLRVHGPYMMHFCGSSLTHQWLTAACVGPDVKDLAAL 60

Qy 61 RVQLEHQHYQDQLPVSRLVHGPYMMHFCGSSLTHQWLTAACVGPDVKDLAAL 60
 Db 61 RVQLEHQHYQDQLPVSRLVHGPYMMHFCGSSLTHQWLTAACVGPDVKDLAAL 60

Qy 121 ETPPGMPCWVGTGWDVNDERLPPPLQKVPIVMEHICDAKYHGLGATGDDVRIR 180
 Db 121 ETPPGMPCWVGTGWDVNDERLPPPLQKVPIVMEHICDAKYHGLGATGDDVRIR 180

Qy 121 ETPPGMPCWVGTGWDVNDERLPPPLQKVPIVMEHICDAKYHGLGATGDDVRIR 180
 Db 121 ETPPGMPCWVGTGWDVNDERLPPPLQKVPIVMEHICDAKYHGLGATGDDVRIR 180

Qy 181 DDMLCAGNTRRDSCQGDAGGPLVCKVNGTWLQAGVWSWGECAOPNRPGIYTYYLDW 240
 Db 181 DDMLCAGNTRRDSCQGDAGGPLVCKVNGTWLQAGVWSWGECAOPNRPGIYTYYLDW 240

Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

RESULT⁵ US-09-598-982C-9

; Sequence 9, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Prendsch, Mary

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Prendsch, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF

; FILE REFERENCE: 34506 104

; CURRENT APPLICATION NUMBER: US/09/598, 982C

; CURRENT FILING DATE: 2000-06-21

; PRIOR APPLICATION NUMBER: 09/079, 970

; PRIOR FILING DATE: 1998-04-15

; NUMBER OF SEQ ID NOS: 52

; SEQ ID NO 9

; LENGTH: 249

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 39

; LENGTH: 249

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-598-982C-39

Query Match 99.2%; Score 1387; DB 1; Length 249;
 Best Local Similarity 99.2%; Pred. No. 0; Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Db 1 LEKRIVGGEARPSKWPWVSLRVHGPYMMHFCGSSLTHQWLTAACVGPDVKDLAAL 60

Qy 61 RVQLEHQHYQDQLPVSRLVHGPYMMHFCGSSLTHQWLTAACVGPDVKDLAAL 60

Db 61 RVQLEHQHYQDQLPVSRLVHGPYMMHFCGSSLTHQWLTAACVGPDVKDLAAL 60

Qy 121 ETPPGMPCWVGTGWDVNDERLPPPLQKVPIVMEHICDAKYHGLGATGDDVRIR 180
 Db 121 ETPPGMPCWVGTGWDVNDERLPPPLQKVPIVMEHICDAKYHGLGATGDDVRIR 180

Qy 181 DDMLCAGNTRRDSCQGDAGGPLVCKVNGTWLQAGVWSWGECAOPNRPGIYTYYLDW 240
 Db 181 DDMLCAGNTRRDSCQGDAGGPLVCKVNGTWLQAGVWSWGECAOPNRPGIYTYYLDW 240

Qy 241 IHHYVPKKP 249
 Db 241 IHHYVPKKP 249

RESULT⁷ US-09-598-982C-37

; Sequence 37, Application US/09598982C

; GENERAL INFORMATION:

; APPLICANT: Niles, Andrew

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Prendsch, Mary

; APPLICANT: Maffitt, Mark

; APPLICANT: Haak-Prendsch, Mary

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF

; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF

; FILE REFERENCE: 34506 104

; CURRENT APPLICATION NUMBER: US/09/598, 982C

; CURRENT FILING DATE: 2000-06-21

; PRIOR APPLICATION NUMBER: 09/079, 970

; PRIOR FILING DATE: 1998-04-15

; NUMBER OF SEQ ID NOS: 52

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 37

; LENGTH: 249

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-598-982C-37

Query Match 99.1%; Score 1385; DB 1; Length 249;
 Best Local Similarity 99.2%; Pred. No. 0; Matches 247; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LEKRIVGGEARPSKWPWVSLRVHGPYMMHFCGSSLTHQWLTAACVGPDVKDLAAL 60
 Db 1 LEKRIVGGEARPSKWPWVSLRVHGPYMMHFCGSSLTHQWLTAACVGPDVKDLAAL 60

Qy 61 RYOLRSQHLYTQDQLIPVPSRIVHPOFPTAGIADALLELEPENVSSTHTVTLPPAS 120
Db 61 RYOLRSQHLYTQDQLIPVPSRIVHPOFPTAGIADALLELEPENVSSTHTVTLPPAS 120
Qy 121 ETPPGMPCWVGTGWGVYDNDERLPPPLKQVKVPIHENHICDAKYHLGAYTGDVRIVR 180
Db 121 ETPPGMPCWVGTGWGVYDNDERLPPPLKQVKVPIHENHICDAKYHLGAYTGDVRIVR 180
Qy 181 DDMICAGNTRRDSCQGDGGPLVCKVNGTWLQAGVWSWEGCAQPNRPGIYTRVYLDW 240
Db 181 DDMICAGNTRRDSCQGDGGPLVCKVNGTWLQAGVWSWEGCAQPNRPGIYTRVYLDW 240
Qy 241 IHYYVPKKP 249
Db 241 IHYYVPKKP 249

RESULT 8
US-09-598-982C-23
; Sequence 23, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIOR FILING DATE: 2000-06-21
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 23
; LENGTH: 249
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-23

Query Match 98. 6%; Score 1379; DB 1; Length 249;
Best Local Similarity 98. 6%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
Matches 246; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 LEKRVGGQAPRSKWPWQSLRHFPGYNNHFCGSSLTHPOWLTAAHGVDYGDVKDLAL 60
Db 1 LEKRVGGQAPRSKWPWQSLRHFPGYNNHFCGSSLTHPOWLTAAHGVDYGDVKDLAL 60
Qy 61 RYOLRSQHLYTQDQLIPVPSRIVHPOFPTAGIADALLELEPENVSSTHTVTLPPAS 120
Db 61 RYOLRSQHLYTQDQLIPVPSRIVHPOFPTAGIADALLELEPENVSSTHTVTLPPAS 120
Qy 121 ETPPGMPCWVGTGWGVYDNDERLPPPLKQVKVPIHENHICDAKYHLGAYTGDVRIVR 180
Db 121 ETPPGMPCWVGTGWGVYDNDERLPPPLKQVKVPIHENHICDAKYHLGAYTGDVRIVR 180
Qy 181 DDMICAGNTRRDSCQGDGGPLVCKVNGTWLQAGVWSWEGCAQPNRPGIYTRVYLDW 240
Db 181 DDMICAGNTRRDSCQGDGGPLVCKVNGTWLQAGVWSWEGCAQPNRPGIYTRVYLDW 240
Qy 241 IHYYVPKKP 249
Db 241 IHYYVPKKP 249

RESULT 10
US-09-598-982C-11
; Sequence 11, Application US/09598982C
; GENERAL INFORMATION:
; APPLICANT: Niles, Andrew
; APPLICANT: Maffitt, Mark
; APPLICANT: Haak-Frendscho, Mary
; TITLE OF INVENTION: RECOMBINANT PROTEOLYTIC TRYPTASES, ACTIVE SITE MUTANTS THEREOF,
; FILE REFERENCE: 34506_104
; CURRENT APPLICATION NUMBER: US/09/598, 982C
; PRIOR FILING DATE: 2000-06-21
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 11
; LENGTH: 245
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-598-982C-11

Query Match 98. 0%; Score 1370; DB 1; Length 245;
Best Local Similarity 99.2%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;
Matches 243; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 5 IVGGQAPRSKWPWQSLRHFPGYNNHFCGSSLTHPOWLTAAHGVDYGDVKDLALRQL 64
Db 1 IVGGQAPRSKWPWQSLRHFPGYNNHFCGSSLTHPOWLTAAHGVDYGDVKDLALRQL 64
Qy 65 REQHLYTQDQLIPVPSRIVHPOFPTAGIADALLELEPENVSSTHTVTLPPAS 124
Db 61 REQHLYTQDQLIPVPSRIVHPOFPTAGIADALLELEPENVSSTHTVTLPPAS 124
Qy 125 PGMPCWVGTGWGVYDNDERLPPPLKQVKVPIHENHICDAKYHLGAYTGDVRIVR 184

Db	121	PGMPCWVTCGMDVDRERLPPFPKQVKPIMENHICDAKHULGAYTGDDYRIVRDDM	180
Qy	185	CAGNTTRDSCCGDAGSPLVCKVNGTWLQAGVVSWSRGCAQPNRPGIYTTRYVYDWTWRY	244
Db	181	CAGNTTRDSCCGDAGSPLVCKVNGTWLQAGVVSWSRGCAQPNRPGIYTTRYVYDWTWRY	240
Qy	245	VPKKP	249
Db	241	VPKKP	245

Search completed: August 26, 2005, 12:29:18
Job time : 0.100161 secs

K-AR-NI-DUP-O

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